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BLITZKRIEG—19501
THE SYNTHETIC WOMANby Jep Powell

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er painting by Robert Fugua depicting a scene fron Fifth Column of M Back cover painting by Frank R. Paul depicting Life on Europa

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O start off this month's editorial observations, we'll reveal an intimate glimpse behind the scenes of Amazino Stories' art. department. As an example, we'll use Eando Binder, who re-

cently dropped in from New York, as the lead character. Mr. Binder stands before a row of four finished science-fiction paintings. He studies them for a few minutes, then he points to one and says: "I think I'd like to do that story." That little scene, readers, reveals exactly how

almost off our cover stories have been written in the past six months. And we think this method, the reverse of the usual procedure, is so successful that we will continue it in the future.

WE wonder whether this is the reason for so many writers poving us personal visits recently. Among the other authors who paid us visits were Robert Moore Williams, David Wright O'Brien, Jack West, Stanton A. Coblentz, Ralph Milne Farley, Robert Bloch, August W Derleth, James Norman and Richard O. Lewis.

NOTE of national "Twenty years of hard work, and now I can't re-A NOTE of national service member what the dam thing's supposed to be from the news that Robert Bloch, Jone acclaimed by Assazing Stoures'

readers as the "5dea man" of science fiction, and author of many off-trail stories, is public relations consultant for the famous "blitzkring kid", Carl Zeidler, who overthrew the traditional Hoan "dynasty" in the "beer-barrel revolt" in Milwaukee's recent sensational mayoralty election. Bloth's "scientific psychology" attack crumpled

the Hoan campaign like tissue paper. He and his associate, Harold Gauer, amazed staid Milwanker politics with their literally science-fiction tactics.

NOT to make this column a political listening nost, but one of our staff members received a nice letter the other day from Thomas D. "Tom" Taggart, Mayor of Atlantic City, N. I. Mayor Taggart's note was in reply to a message of congratulations sent him on his recent election

It is in Atlantic City that Abner J. Gelula, last seen in our pages with "The Whistling Death" in our June '30 issue, carries on both his fictional and his political work. This is hy way of public notice that now the mayors have been taken care of, we'd like

IT is with the greatest regret that we learn of the death on June 12th of one of the most powerful figures in weird, amazing, and fantastic fiction of the past decade. Farnsworth Wright, editor and author.

Many of the truly ereat wience-fiction stories owe their existence to the masterly touch of this amazing man, and many

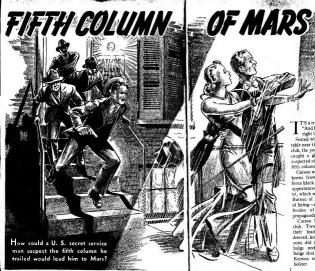
to see more of his fiction for AMAZING STORIES.

an author will miss his guiding hand

HEP POWELL, who writes as his first fictional attemet. "The Synthetic Woman" in this issue, is the subject of our thumbnall autobiography in the Meet The Authors department this mouth. We think it's a humdinger. And you fellow readers? (Continued on page 83)

FIFTH COLUMN:

How could a U. S. secret service man suspect the fifth column he trailed would lead him to Mars?





T'S a trap!" groaned John Keenan.
"And like a damned fool, I walked
right into it."
Seated with Betty Phillips at a small

table near the wall of the crowded night club, the youthful F.B.I. agent had just caught a glimpse of William Carson, suspected of being the leader of a secret fifth column in America.

Carson was tall and lean. Bushy eyebrows frowned down upon a pair of incree black eyes. Judging from outward appearances, he might have been an artist, which was exactly what the Federal Bureau of Investigation suspected him of being—an artist in the difficult profession of espionage, sabotage and propaganda, a"borer from within."

Carson had just entered the night club. Two men were with him. Like their leader, they were faultlessly dressed, but even their perfectly tailored suits did not quite conceal the slight bulge under their left shoulders—a bulge that to the trained eye of John Kcenan meant a gun in a shoulder



BY ROBERT MOORE WILLIAMS

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Keenan didn't have a gun. If he had carried a pistol, which his F.B.I. badge entitled him to do, Betty Phillips would certainly have detected it

"What did you say, John?" Betty Phillips asked, leaning slightly toward Keenan, "The orchestra was playing

and there was so much poise. I didn't

understand you." The exclamation bad leaped involuntarily from Keenan's lips when he saw Carson enter. It was a slip, and in the grim game of counter-espionage in which he was involved, one slip was usually all an agent was allowed. But this slip did not matter; because, if his swiftly forming suspicions were correct, the fatal error bad already been made and the payoff was coming -- in the form of slugs of hot lead.

Keenan's gaze instantly came back to his companion. His eyes drilled into the heautiful girl seated across the table from him, and the expression on his lean

face hardened.

Had she really understood what be said, he wondered. When he saw the enemy agent enter-a man whom he knew bis fellow F.B.I. operatives were trailing-his mind leaped instantly to the conclusion that if this was a trap, Betty Phillips bad served as the bait!

She bad suggested Keenan meet her

at this night club!

That fact alone would have meant nothing under ordinary circumstances. But when there was added to it the fact that Betty Phillips was also suspected of being a member of the fifth column operating in America, and that John Keenan had been assigned to make a thorough investigation of her activities. her suggestion that they come to this club tonight suddenly assumed a hideous meaning.

Had she put bim on the spot? Was she working with Carson, as the F.B.I. suspected? Had she somehow dis-

covered that Keenan was a federal man trailing her, and so had arranged with Carson to knock him off as he left the night club?

COR two months Keenan had been following her. He had kept his identity secret. A meeting between them had been arranged, and be had asked her if he might call. She had assented, They had gone to gay parties together, had made the rounds of the night clubs. Outwardly Betty Phillips was a charming, intelligent, beautiful girl, American to the core, and at times Keenan bad cursed the rôle he was forced to assume

At other times, he knew Betty Phillips was not what she seemed, that he was entirely justified in deceiving her. Something shadowy and dark moved in the background of her life. She was supposed to be employed as a buyer for a California fashion firm. Checking, the F.B.I. had discovered that she actually

was a buyer. But she was something else as well,

She made mysterious telephone calls. Occasionally she was absent from her apartment for several days, laughingly explaining her absence as trips to the home of an aunt in New England. She received coded telegrams from an unknown source, and while the F.B.L had secured copies of the wires, it had never been able to crack the code.

All this passed through Keenan's mind in the flash of an instant. The grim thought remained - had Betty Phillips lured him to his death?

"I didn't understand what you said." she repeated. "What is it that's a

trap?" "I said this place is a fire trap," be

quickly answered, gesturing toward the silk draperies covering the walls and ceiling. "The city authorities ought not to permit it to operate. Come on. Let's get out of here."

Keenan rose to his feet. Out of the corner of his eye, he saw Carson and his two companions. The enemy agent was

moving calmly toward a reserved table. "Leave so soon?" the girl protested. "We just came. And I'm sure there

isn't any danger of fire." She didn't want him to leave! She

was trying to hold him there! "We're leaving anyhow," he grated.

"We'll go to some other club. I have conceived a dislike for this place." A sharp glance of suspicion shot from

her eyes. It was instantly veiled. "Just as you say, John," Betty an-

swered, nicking up her purse. Before they had taken two steps from the table, she discovered she had for-

gotten her lipstick and went back to get it. Keenan stepped behind one of the ornamental pillars. He suspected she had deliberately left the lipstick behind. to delay his departure until Carson had had time to spot him. But she did not even glance toward the enemy agent.

Their departure from the club was as casual as Keenan could make it, but beads of perspiration stood out on the F.B.I, man's forehead. Better than anyone else, he knew the danger that was confronting him. It was not a menace that he could meet man to man It was a menace that struck from behind, that freely utilized the planted bomb and the stab in the back . . .

They paused only long enough for Keenan to retrieve his cane from the check room. He felt better the second that length of polished wood was in his hands. He didn't have a gun, but at a twist of the handle, a length of finely tempered steel would spring from the end of the cane, making it into a very effective sword.

S they left the check room, Betty glanced backward. Keenan saw the act. He turned casually, and what

he saw tightened an iron band around his heart. Carson and his two men were coming toward the check room. They had not gone to their reserved table. Instead they were coming toward him.

They saw him. Undoubtedly they had seen him unobtrusively try to slip away.

At the hiss of his indrawn breath, Betty inquired.

"What is it, John? Is something wrong? What's the matter?"

There was anxious solicitude in her voice.

"Yes," he answered grimly. "Something is definitely wrong,"

"What is it?" she asked breathlessly, "Can I help you? Are you ill?" Even in that moment, Keenan had to

admire her ability as an actress. She had out him on the spot-now she was inquiring if he was ill! And the expression on her face, the tone of her voice, indicated nothing more than sweet concern for his welfare!

He laughed bitterly. "As if you didn't know what was wrong!" he snarled. "Come on: get that sweet-sixteen-and-never-been-kissed look out of your eyes. You know what this is all about as well as I do! I'm getting out of here. And you're coming with me."

He seized her by the arm. While they had been talking, his eyes bad been darting over the room. To go out the main exit might easily be fatal. Carson and his two gorillas would be expecting that. They would follow him out.

But there was a side entrance, a small door down a flight of stairs to the right. The door was open. Through it he could see a quiet side street. He started toward it.

Keenan was looking backward. watching for the appearance of the enemy agents. He did not see the intense column of light suddenly appear on the sidewalk just outside the door. until Betty's sharp cry ierked his head around.

"John! Look! That light. It wasn't there a moment ago,33

He merely glanced at it. It was a column of intense white light, misty and strangely solid in appearance, and hetween three and four feet in diameter. It rose up into the air. How far it went, Keenan did not know. The top of the doorway shut off the sight of the

top of it. "John, I'm scared!" Betty suddenly wailed. "That light is dangerous. I feel it is. And it popped up there so quickly. If we must leave, let's go out the front

exit, not this side door. I don't want to 20 out this way."

She lerked her elbow away from his A footfall sounded at the top of the

flight of stairs. It was Carson. The alien agent stood there looking down at them, a supercilious but slightly puzzled smile on his face. His two men appeared beside him. They started down the stens

"Maybe you don't want to go out of here, sister," said Keenan roughly. "But you're going anyhow-as a shield! I hate to hide behind a woman's skirts. but in this case, I'm more than justified in doing it. More lives than mine are at stake now."

HE seized her in both arms, and leaped through the door-straight into the column of light

Keenan's thought, when be first saw the blaze of illumination, had been that it was an advertising stunt of some kind. Perhaps the management of the night club had huried electrodes in the sidewalk, thus producing this effect. Keenan was not an electrician, and at that moment, he was not interested in how the thing worked.

The instant he touched the light, he knew it was not an advertising stunt. As he stepped into it, he glanced upward. In other circumstances what he saw would have left him gasping in amazement

Like the beam of a gigantic searchlight, the column of light stretched into the sky. Up, up, up, it went, farther than the beam of any searchlight ever constructed on earth, farther than any searchlight ever conceived by the imaginative mind of man. It reached upward -he got the fleeting, startled impression-for millions of miles, to the very

A searchlight from the stars! was it a searchlight? Was it something else? Could it he some new invention contrived by Carson's associates? Had Keenan been tricked into leaving the night club? Had Carson realized he would take the side exit and contrived some totally unknown, subtle tran for him?

stars sparkling in the sky overhead.

Keenan, with Betty Phillips tightly gripped in his arms, felt the light suddealy close around him. The impression he got, from the nerve impulses tumbling over each other as they tried to reach his mind, was that the light had suddenly become very solid. From a tenuous mist, it had seemed to coalesce into a firm substance. And that sub-

stance-eribbed him! It flowed around his body like water surrounding a drowning man. And if by some miracle the water surrounding a drowning swimmer could suddenly he turned to ice, choking off the death agonies and seizing the swimmer in a grip of steel, the result would have been

similar to the effect of this light on John Keenan and the girl in his arms. The light flowed around him. It

seemed to freeze solid. It grabbed him held him. He tried to struggle against it, but all the strength in his wiry body was not sufficient even to make the faintest impression on the force that held him. He tried to cry out, and the muscles in his throat ached with the pain of the words he wanted to utter, but couldn't.

For a flashing moment, the light held him. In that moment, John Keenan caught a glimpse of Carson. The enemy agent had come to the exit. He was staring at the couple caught in the enbrace of the light on the sidewalk. But whether there was surprise, or satisfaction over a coup well executed, or the alien satoneur, Keenan could not decide. He bewilderment on the face of the alien satosteur, Keenan could not decide. If the superstance of th

It lifted him. He seemed to rise in the air. For a mad moment, he saw New York lying below him. Then there was an arc of blackness under his feet. His tortured mind sought refuse in unconsciousness.

CHAPTER II

The Fitherman of Mars

WHETHER he was unconscious seconds, minutes or hours, Keenan did not know. His mind was a merciful blank. When the blackness faded from his brain, he felt the misty light loose its grip on him. The frozen-solid-

in-ice feeling went away.

A rigid paralysis still held him motionless. But it was not a paralysis resulting from the application of an external force. It came from his own
mind. Sensations came again to his
brain. He could see and feel. The
husky rasp of his breath was loud in his
ears. But his mind could not accept the
morresions brought to it hy his senses.

His brain called his vision a liar, He was in what seemed to be a glass

cylinder, which was raised several feet at above the floor of the strange circular er room. Overhead, in a sloping dome that the much resembled an observatory housing at a telescope, was a round opening over which a screen was closing. As the discreen closed, he caught a single glimpse of the sky outside, with stars blazing

brightly in the dark vault of heaven.

The room was large. And it was filled
with electrical equipment: switch

with electrical equipment: switchboards, rows of meters. Filling one side completely was a row of huge tanks that looked like a gigantic storage battery. But it was not the room, nor the equipment in the room, that took the

G-man's breath away. It was the grotesque, incredible, impossible monstrosity seated before the banks of switches that made Keenan's senses reel.

The creature looked a little like a man. There was one horrible exception —he had a fanged mouth!

The fangs were like tiger teeth, curved, round and yellow. The face was malevolent, evil. The fangs made it even more sinister.

The creature was almost dancing with glee. He looked at the two captives in the hollow glass cylinder and his face contorted in a grimace of delight. As he came across the room toward them he was neglitizely capting with low

he was positively capering with joy.

"Good Lord!" John Keenan gasped.

"Who—what is that?"

He was talking to himself. In the stress of circumstances, he had forgotten the girl, he had forgotten Carson, even the death trap that had been closing in around him. He had escaped the trap—somehow. That much was obvious. But what had happened to him?

He remembered Betty Phillips when he heard the soft cry of fear come from her. Then he realized she was clinging to him.

"John! John! What happened?

ing toward us?"

There was mad, shuddery fright on her face. Somehow the sight of her fear lifted a borden from Keenan's mind. If she had known this was going to happen, she would not be afraid. Therefore she had not known. Whatwer had happened, had been done without her knowledge. Though he did not doubt that she had put him on the spot in the night club, her plans had miscarried somewher.

A SPY, a fifth columnist Betty Phil-

Ins undoubtedly was, but just at present she was only a badly frightened girl. Instinctively Keenan's arm went protectingly around her. With the

other hand he firmly grasped his cane.
"Let us out of here!" he yelled.
"What the hell is the meaning of this!
Kidnaping is a serious offense, punish-

able by life imprisonment or death!"

His voice roared back at him from
the walls of the cylinder in which they

the walls of the cylinder in which they were confined.

The creature capering outside didn't

hear them. But he saw Keenan's lips move and must have guessed that they were attempting to talk to him, for he swiftly released a series of catches at the base of the cylinder. A section of the glass slid away.

"He wants us to come out," said Betty nervously.

"Well, we're coming," Keenan growled. "Fil go first." Three short steps led to the floor.

Keenan's flesh recoiled as he stepped downward. The monstrosity capered gleefully. His face split into a broad grin, revealing those horrible fangs. Keenan repressed a shudder.

"What's going on here?" he demanded. "What have you done to us? How did you bring us here? Who are you?"

His tone was commanding. But he was bluffing. A cold wash of perspiration bathed his whole body. But no matter how badly scared he really was, he knew there was nothing to be gained by showing it. A good bluff might save them. On the other hand, cringing might seal their doom.

Displaying fangs, their captor answered. His voice was high and sing-song. It vaguely resembled Chinese. But it was in no language known to Keenan.

"I don't get it," he said. "Speak

English."
Their captor looked disappointed.

He frowned. But only for an instant. Then he began waving his arms again. He started to walk away, then looked

back over his shoulder at them.
"He wants us to follow him," Betty
wbispered.

"I see he does," Keenan answered.
"Well," he sighed, "when the devil
beckons, we don't have much choice except to follow. If he wants us to go with

him, we might as well do it."

With Betty clinging to him, he followed the grinning monstrosity into the adjoining room. What he saw there puckered his brows in bewilderment.

The place looked a lot like a treasure room, a vault designed to protect jewels and gold. There were no windows. Light was supplied by strangely shaped glowing splotches on the ceiling.

But if this was a treasure vault, it held the strangest treasure ever assembled by an insane mind. There were no stacks of golden bars, no gleaming silver, no caskets that might have contained precious stones.

Instead—there were bricks, pebbles, limbs from trees, bits of broken stone, a badly worn automobile tire that looked like it had come from some city dump, a tea cup with a broken handle, an old home that looked like it had been picked up on the desert, a fly swatter municate with us " that had obviously been thrown away. "But that's-that's impossible!"

J UNK! There was a radiator orna-ment from an automobile, a broken fountain pen, and a hattered alarm clock with half its works hanging out, Rusted metal, dry hones. Refuse that might have been picked up on a garhage hean, pieces of broken metal that might

have come from a junk yard, Junk locked in a treasure vault guarded by a metal door that was inches

thick!

If John Keenan had needed anything else to convince him that he was hopelessly mad, the sight of this carefully guarded rubbish was it, Betty was looking at it too. Some of the fear was gone from her face now, but there was still terror in her eyes.

The fanged man darted across the room. He grabbed a low metal hench, thrust it toward them. Bowing, he indicated they were to he seated on it. Very gingerly, they sat down,

"There's something terribly wrong here," Betty whispered, "I don't like "I don't like it any better than you

do." Keenan answered. "What's he doing now?" Their captor had darted from the room. He returned in only a second. carrying three metal bands. He placed one of the hands around his own head.

adjusting it until it was a snug fit. Then he handed the other two toward them. Retty drew back "He wants us to put those hands around our heads, as he has done,"

Keenan said. "But-"

"I don't think he means to harm us If he does, there is not much we can do about it. We're in his power. And I have a hunch that those hands are somehow designed to enable him to com-

"I know it is. But from the signs he is making that must be what he means "

There was a cold feeling running up and down Keenan's spine as he accepted the metal band.* It was shout half an inch thick; and through a small slit in the outer side, he saw it was filled with delicate, tiny instruments. The cold feeling grew in intensity. Keenan slipped the hand around his head.

A thought impression came hurtling into his mind. No words came: words would have been meaningless. But a thought came! That fact alone was enough to lift him to his feet.

But the fact that the hand enabled the wearer to utilize controlled telepathy was not a tenth as stunning as the thought that came through. It was-"Welcome-to Mars!"

Mars! The red planet in the nighttime sky. Earth's twin sister, the fourth planet out from the sun. Mars!

"What kind of damned nonsense is this!" Keenan stormed. "What kind of a game are you trying to work?" The

* Richard O. Lewis, in "The Incredible Theory of Dr. Penwing"-AMAZING STORIES for August, 1940-advanced the proposition of telepathic interchange of messages through means of a closefitting skull belinet: Undoubtedly these belinetsor, as in this story, metal bands-filter out extraneous electrical waves, permitting brain-waves to emanate and he mentally recorded without "static"

The theory of brain-waves is still in the experimental stage, but through a combination of psychology and medicine this whole new scientific vista is being opened for the world. Many scientists have long believed that the physical processes of thought are electrical, the brain being a sort of minuture dynamo which, in addition to regulating hodily functions through the nerves-"wires"-can project its thoughts much as radio

wayes. The human brain, as such, is only at the beginning of its powers. New functions are being discovered constantly. In time to come, it may be that people with especially brilliant minds will converse with each other telepathically, to give their word cords a rest -Ed

exertion of shouting somehow left him short of breath "No game," the answer came. "No

"But that's ridiculous!" Keenan blazed, although a horrible doubt was

nonsense. You are on Mars." clutching at his heart. "Who-who are

vou?" "I am Thordon," the fang-mouthed gargoyle answered, grinning. "Thordon of Mars."

"CUT out the comedy!" Keenan snarled. "This isn't Mars. It can't be! You're working with Carson. They must have used a gas on us as we left the night club, a gas that made us instantly unconscious. Then they brought us here. I don't know what kind of a game you're playing with them, but

whatever it is, it won't work!" The cane Keenan was holding was slick with the sweat pouring from his palms. Noting his angry tension, the creature who called himself Thordon left off his grinning. He beckoned to

them "Come." the whisper of his thought vibrated. "I will show you. Then you will have no choice but to believe."

Keenan felt Betty trembling as they walked out of that incredible treasure vault, up a flight of stairs, and out on a

flat roof under the flaming stars. He heard Betty gasp as she looked upward, and he knew what had caused that hiss of indrawn breath. The stars flamed! They didn't twinkle, as they did when seen through the thick air blanket of Earth. They flamed! They were bright dots of white brilliance sbining in the black sky. And over to one side-

Thordon pointed, "There!" Triumph was in the whisper of his thought. "There is your planet, Earthman, There is Earth."

He was pointing toward a bright

green star burning in the sky, "And if the sight of the sky is not

enough," Thordon continued, "look

around you. Is there a city such as this anywhere on your planet?"

Around them, stretching away for mile after mile, was a flat-roofed city. The buildings were not tall-four stories at the most, but the architecture was not similar to anything ever seen on Earth. Only an alien race, totally different in thought and habit, with dif-

ferent methods of transportation, a different culture, a different civilization. could have built this city. The appalling truth was forced home to him. He was on Mars! Thordon was not lying. He was telling the simple truth. Thordon was a Mar-

tian! "But how - why - " The words whispered on his lips and the thought issued from his mind. Thordon's tele-

nathic reply was: "How? We know much of the science of light. We have learned to project it a distance probably inconceivable to vou; to create, at the focus

of our projection, a force similar to a magnetic field that will grip any object it touches. "Unlike the ordinary magnetic field, which will attach itself only to metals.

this force-projection will grasp anything it touches, both metallic and organic. Thus it attaches itself to you."

In that explanation, whispering insistently into his mind. Keenan caught a bewildering glimpse of a vast science that was developed far beyond the science of Earth. And in Thordon's next sentence, he found the meaning of that junk so carefully guarded in the treasure vault below

HAVE tried before to bring back one of the inhabitants of your planet," the Martian explained. "Until now I was not successful. I was able to collect many strange and beautiful objects, and although I wanted an Earthman very badly, I could not catch one. In spite of the near perfection of our telescopes, at the distance your planet is from us, accurate focusing is almost imnossible."

almost impossible."

In a sense, then, the Martian had been engaged in a gigantic fishing project. Across the depths of space, he had cast his "net" on Earth. And the net had brought hack to him—junk from rubbish heaps, broken pottery, an old automobile tire! On Earth, those things had no value whatsoever, but on Mars their scientific interest alone Mars their scientific interest alone

Keenan realized what had happened. He and Betty had fled from the night club, and had stumbled right into the telescopic net cast by the fisherman of Mars. It was a weight off his mind to know that at least he had escaped the fifth columnists. Events back on Earth were no longer of any importance.

would make them priceless.

But there was a growing fear in Keenan's mind—fear of the vast distance he had crossed; fear of this cold, thin-air planet; fear of this strange civilization; fear of Thordon. He did not show the qualms he felt. The bravest man that ever lived may be utterly fearful, but he is not a coward until his

fear masters him.
And John Keenan was afraid. What
strange motive had sent this fangmouthed Martin scientist casting his
net of light across the reaches of space?
His across. But looking at him, Keenan
could see the evil on his face, the last
or something in his eyes. Thordon
was grinning, hut his grin was that of
a cat which has just caught two were
act which has just caught two were gleaning.
Keenan took a determined grip on his
Keenan took a determined grip on his

"What do you want from us?" he demanded.

The Martian looked startled. He h glanced quickly over his shoulder, as though the question made him suspect r someone might be listening.

"Someone might overhear us here," he answered. "These thought-transmission bands have a limited range, it is true, but someone might hear what we are saying if we talked here. My laboratory is shielded. We will go hack there and I will tell you what it is I

want and must have from you."

Betty had not said a word. She said nothing as they followed the Martian back down the narrow stairs, but she clump to Keenan's arm with a force.

back down the narrow stairs, but she clung to Keenan's arm with a fierce grip.
What did Thordon want, the youthful federal agent wondered. What se-

cret was great enough to keep the Martian patiently fishing across the depths of space until he had captured a man? What had the human race discovered that the Martian scientist wanted?

Thordon searched the laboratory as though he suspected an intruder might be hidden there. He locked all the doors. Then he drew his two captives to the center of the room, and looking

nervously around him, whispered softly, "What I want, Earthman, is the secret of atomic power!"

CHAPTER III

Thordon's Quest

"THE secret of atomic power!"

Keenan's first thought was that he had not understood correctly. The impulses from the Martian's mind had not been too clear at best. And now that Thordon was visibly excited, they were even less clear.

So Keenan assumed he had misinterpreted the thought impulse. He could not conceive that the vast science the Martian had at his disposal lacked atomic power. Thordon could do things with light that had not even been thought of on Earth. That fact alone meant that his knowledge of science

was tremendously advanced. Also, to project a light trap to Earth would almost certainly require a vast source of power.

"You understood me correctly, Earthman," the Martian impatiently interrupted. He was no longer grinning, "You have atomic power on Earth. I know you do because I have seen it in operation through my telescopes. You came from Earth and must therefore know how this vast energy is released "

"But don't you have it already!" Keenan gasped. "Surely, if you can do what you have done, you must be able to release the power locked within the atom "

"We do not have it." the Martian contradicted. "I am the greatest scientist on Mars and it has eluded even me."

"But what do you use for energy?" Keenan blurted out.

"This." The Martian pointed to the bulky tanks that filled one side of the laboratory, "We draw our electrical energy from a chemical source. And as a result, our power supply is always exceedingly bulky, unwieldy. It does not supply enough energy to move itself. That is why I want the secret of atomic power from you."

Looking at the tanks, Keenan saw how huge they were. If the Martians had to depend on such sources for electricity, they would never have develoned even an electric automobile. Nor would they have a vast industrial system powered by electricity. Butneither had the scientists of Earth succeeded in tapping the power known to be locked within the atom.

"But we don't have atomic power!" Keenan protested. His mind flashed back to the dozens of newspaper stories he had read during the past year, stories of research on Uranium 235. The scientists of Earth were close to the secret. They would

solve it in a few more years. But they hadn't solved it - vet. He explained this to the Martian.

Thordon flew into an instant rage.

The grin vanished from his face. When it vanished, his face showed nothing but evil. In a second he became a raging devil "You lie. Earthman!" he shricked.

"You are trying to deceive me. Let me warn you now that attempting to deceive Thordon will have serious consequences-for you!" Keenan stiffened, "But I'm not ly-

ing. We're working on it. We haven't solved it." "Lies, all lies!" the Martian raged,

"You have the secret. I know you have it1"

"But we don't have it!" Betty interposed. "My companion is telling you the truth. What makes you think we're lying?"

"THIS!" the Martian snarled. He darted across the room, snapped a series of switches. An instrument similar to a small motion picture projector went into action. The pictures it revealed must have been taken through an exceedingly powerful telescope, for the scenes it revealed were from Earth.

The first picture-there was no mistaking it in spite of the blurred, distorted focus-was that of an ocean liner. A great ship. She was moving slowly and steadily across the sea. The picture must have been taken prior to the outbreak of the present war in Europe; for once, when the focus for an instant was perfect, Keenan caught a glimpse of the name of the vessel. The Queen Mary.

He had last seen her tied up at the decke along the Hudeon Piver in New

focks along the Hudson River, in New York City. It made him madly homesick to see a picture of the ship here in this forlorn laboratory on the planet Mars.

The next scene showed a battle fleet, the great gray dreadnoughts steaming in a long line. The protecting screen of cruisers was plainly visible, and out far ahead, the destroyer scouting force. It was the United States battle fleet, the flag on the mastheads showed.

The sight of that flag here in this mad laboratory gave John Keenan an inexpressible thrill. He, too, fought for that flag, just as those gallant ships were designed to fight for it. But, if necessity ever arose, those ships would fight openly. He, John Keenan, fought the secret, insidious forces working inside the country. the deadle fifth columnists.

the country, the deadly fifth columnists.
The pictures had apparently been taken during battle maneuvers in the Pacific.
Other scenes followed. A part of the

British Home Fleet flashed across the screen. Then the pictures turned to something else, and Keenan, watching the Martian out of the corner of his eyes, saw Thordon's tongue reach out and lick his lips.

The pictures showed a battle scene. Great lumbering tanks, seventy-ton steel monsters, smashed ponderously into and over a line of fortifications. Lighter tanks followed. The gigantic armored car movement spread out like a fan behind the punctured lines, attacking the trapped defenders from the transport of the control of the contro

It was the German break-through at Sedan, France, the beginning of the gigantic pincers movement that culminated in the battle of France. It was

one of the world's greatest military offensives, as seen through the telescopes of Mars.
Flashing above the tanks, like gigantic dragon-flies, were planes. Hun-

tic dragon-flies, were planes. Hundreds, thousands of planes. The deadly dive bombers shrieking toward the ground. Pursuit ships. Dog fights in the sky. Planes crashing to earth, trailing long plumes of flame and smoke. Craters miraculously appearing where the demolition bombs struck. Battles, the battles or hat the sort of the tanic catastrobic Second World War.

And the Martian was avidly drinking in the scene. His fangs were gleaming, and thin streams of saliva trickled from the corners of his mouth!

A BRUPTLY the pictures ended. "See!" the Martian screamed.

"Nee!" the Martian screamed.
"You do have atomic powe! Those
great ships on your seas, those great,
crawling metal houses, those ships that
fly through the sky—they must be powreed by atomic energy. No other source
of energy is great enough to enable them
to move as they do. They are run by
atomic power. And you are going to
ell me how these atomic forces are libell me how these atomic forces are lib-

Keenan stared at him in stupefied amazement. The Martian had showed him pictures of tanks, airplanes and battleships, and had claimed they were operated by atomic power. Nonsense! Tanks and airplanes used ordinary internal combustion engines.

But—and the thought came in a stunning flash—what if Mars had not developed an internal combustion enengine? What if their only source of power was bulky chemical batteries? What if—but this seemed incredible they had never developed even the wheel and the axle?

Was it possible for a race to be so

ing."

tremendously advanced in some fields—and the telescopes that had made possible those pictures were tremendous advances, as was the light projection—and at the same time have never developed the internal combustion engine?

"Tell me!" the Martian impatiently commanded. "How are atomic power

commanded. "How are atomi batteries constructed?"

"I've been telling you the truth!"

Keenan blazed. "We don't have atomic

power. Those tanks, those airplanes are operated by internal combus—" Keenan stopped abruptly. He recalled how exertly the Martian had

called how eagerly the Martian had watched the tanks in operation, how he had gloated at the sight of the places raining bombs on the earth below.

"Why do you want to know this?" he demanded. "If I could give you the information—which I can't—what use would you make of it?"

The Martian's face changed. He became oilily agreeable.

"Yes, yes. You would naturally want to know that. It is a fair question. I will tell you why I need atomic

power."

Thordon paused. "Mars is a poor planet," he continued. "The natural resources we once possessed have been largely used up. We are faced with starvation. Our only hope is to secure power, in large quantities. We have little water. The canals are going dry. Our atmosphere is slipping away. Of course, tens of thousands of years will pass before we will be in great danger, but we must begin now if we are ever "That is why we results unlimited."

quantities of power. To synthesize water, to build vast atmosphere plants to renew our air."

The Martian halted his speech. He eyed the two Earthlings to note the effect of his appeal.

"I ask you to help us," he ended.

"Mars and Earth are sister planets. One sister is in great distress. If you will help us in our hour of need, I assure you Mars will remember your act with gratitude."

Not a muscle in Keenan's face

moved.

"You've practically got me crying,"
the Earthman said contemptuously,
"We've got fellows who make the same kind of fine speeches back on our planet.
We call them politicians, and the mess you just showed us over in Europe is one of the results of listening to them.
Thordon, I'm afraid you're going to have to come again. I think you're ly-

THE Martian snarled, "You refuse?"

"Show me your dry canals, show me your population threatened with sarvation, show me you ur need," Keenan challenged. "If you're telling the truth, I'll try to tell you how to build an internal combustion engine. If you're lying, I'll see you in hell before I tell anything.

Keenan was playing with fire, and he knew it. In defying the Martian, he was taking his life in his hands. But somehow the risk was worth it, especially when Betty whispered tensely, "Good for you, John! Don't tell that dirty devil anything. He has something up his sleeve."

But Thordon did not have anything up his sleeve. He had it in his pocket. His face a mask of baffled rage, his hand darted into his clothing. It came out with a small instrument that was largely

one huge lens.

"We'll see whether or not you will tell me what I want to know!" the Martian roared. "When this freezes you, you will be only too glad to open your stubborn wouth"

born mouth."

A flare of light leaped from the lens.
But Keenan was already in action,

With a thrust of his hand, be shoved Betty Phillips to one side. A twist at the handle of the cane he carried, and the spring-actuated blade hummed as it leaped out and locked itself at the tip of the stick.

of the SUCK.

Keenan was right-handed. He threw
himself to the floor and to the left, ducking under the beam of misty light leaping from the lens that Thordon held.

The sharp tip of the sword blade leaped
upward under the fierce impetus of his
lunge.

An Earthman armed with a sword cane against a Martian armed with a menacing, incredible weapon!

"I don't have as much chance as a

Even if, by a lucky thrust, he disposed of the Martian, there were undoubtedly thousands of others in the city outside. He couldn't fight them all. It would be an Earthman and an Earthwoman against the might of Mars. And Keenan did not know how far he could trust the woman.

But he fought anyhow. He had no choice. The jet of blazing light cascading outward might be intended to annihilate him. It might sear through his body like a hot knife cutting through

Thordon had not been expecting the lunge. The weapon he had jerked from his pocket had, in his opinion, made him complete master of the situation. He was disagreeably surprised not only to find that the jet of light struck nothing, but that the sharp point of Keenan's swed cane was driving straight toward.

his heart!

He jerked quickly to one side. That motion saved his life. The point of the sword drove straight through his shoulder, and the tip stuck out behind his back.

Keenan saw the Martian jerk aside, squalling. Keenan tried to straighten

his lunge, but it was too late. He felt a fierce satisfaction as the point drove into the Martian's shoulder. "Take that, damn you!" he yelled. He jerked the weavon from the

He jerked the weapon from the other's flesh, brought it back for another lunge.

runge.

FOR the first time, John Keenan felt there was a chance to win the fight. If he won—well, they would still be marooned on Mars. There was nothing that could be done about that. But perhaps he and Betty might have a chance to live out the remainder of their lives on the red planet as strange castaways of fate.

Hate showed on the distorted face of the Martian. Hate and rage. But now there was fear too. The fanged mouth was wide in a savage snarl as Keenan lunged—straight into the second jet of light exploding from the Martian's weapon.

2 The beam struck with the force of a physical blow. It hit like the smack of a fist. And when it hit, it seemed to freeze. Again the F.B.I. agent cxperienced that incredible sensation of being suddenly frozen in ice, the same sensation he had felt when the telescopic beam picked him up outside the "night clib in New York."

His fingers were wrapped around the handle of the sword cane in a grip he could not unlock. Every muscle in his body turned instantly to ice as the light flowed around and through him. He was driving forward. And he could not stop.

A look of fiendish triumph showed on the face of the Martian as he slipped lithely out of the way. Keenan saw the floor coming toward him. He knew he was falling, but there was nothing he could do to prevent it. He was like a tall block of ice that has lost its halit with shuddering force.

Somewhere he seemed to hear a woman screaming. Then he could hear the sound no longer. It was gone. And

woman screaming. Then he could hear the sound no longer. It was spone. And blackness deeper than the bottomless pit was crashing into his mind. The last thought that came hefore the blackness overwhelmed him was that he had lost. He had lost! Now the Martian would be free to use torture to extract the desired information from his helpless horly.

"I'll never tell him," Keenan gritted.
"I'll never tell him."

Then everything went blank.

CHAPTER IV

HE had no knowledge of the length of time he was unconscious. It might have been hours. It might have been hours. It might have been days. Several times he was vaguely ware that people were near him, but who they were he did not know. Once he got the impression that Diff. Columnist William Carson was bending over him, and he knew he was delifious. He vaguely remembered that he was on Mars and that Carson was

Twice he felt himself lifted. He had once been in a hospital as a result of a bullet that had just grazed his bead, and in his dazed condition he thought he was back in that hospital, with the chief of the F.B.I. bending anxiously over him. "We'll clean out those fifth columns

back in New York, lost across the mil-

lions of miles of space.

ists, Chief," Keenan muttered in his delirium. "If they think they can attack America from within, they'll find they're harking up the wrong tree." Then the nightmare swirled away

into blackness and another took its place. Keenan's own heart spoke aloud.

"You're beautiful, Betty. And I love you. But I don't know where you stand in this crazy world. There's something shadowy about you, Betty, something sinister. I can't trust you because I suspect you are an enemy. And I'll lock my love within my heart until I know what you are."

He had never spoken like that to Betty Phillips. But the fever in his mind loosened his tongue and the secret came to his lips. Only Betty Phillips wasn't there to hear it.

Eventually the nightmare turned utterly feverish. Keenan looked upward. A hideous fanged monstrosity was bending over him.

Then he realized it was a nightmare no longer. It was reality. He remembered sickeningly what had happened.

Keenan sat up with an abruptness that sent his senses reeling. He found himself on a stone hench in a narrow room that could only be a prison cell. Thordon was there with him. Thordon was there, ready to use torture to extract the secret that he wanted.
"I won't tell you," said Keenan

huskily. "Until I know how you will use the information, I'm telling you nothing. For all I know, all you may need is the secret of the internal combustion engine to build space ships to invade Earth. They've got enough trouble hack there, without you butting in. I'll

vade Earth. They've got chough trouniehack there, without you butting in. I'll tell you nothing!"
Then he realized the Martian was not Thordon. The fancs were not so sharply

pointed. The face was different. There was dignity in the features of this Martian. And no evil. "Who are you?" said Keenan

"Who are you?" said Keenan ahruptly. His thought hand had heen removed.

When it was replaced, the Martian said, "I am Gurnwald, and I am laboratory assistant to Thordon."

"I sunnose he sent you to prepare

me for the torture chamber," Keenan gritted. "If you get anything out of me, you'll bave to tear it out by the roots." "No," the Martian answered. "I

"No," the Martian answered. "I do not think Thordon will use torture on you. I believe it is no longer neces-

"No longer necessary!" The implication of the thought amazed Keenan.
"Do you think he took what he wanted to know out of my mind while I was unconscious?"

..........

PERHAPS that was what the wily Martian had done, Keenan thought. While the Earthman was in the grip of the paralysis, perhaps Thordon had prohed his mind. If that had happened, Keenan was entirely in the power of the Martian.

As long as he'd had a secret that the Martian wanted, he could use it to bargain with. But once the Martian knew that secret, Keenan had lost his advantage over the other.

"No," Gurnwald answered. He hesitated, and was about to say more, but

seemed to think better of it. "I can tell you nothing else. And I must go now. Thordon will be wanting me."

He started toward the door.
"Wait a minute!" Keenan exclaimed.

"If Thordon didn't get the secret from me while I was unconscious, where did be set it?"

"I cannot tell you," Gurnwald replied.
Suspicion shot through Keenan's mind. There was only one other possible source from which Thordon could have obtained the information.

"Where is Miss Phillips?" he demanded. "What has been done to her?" "I can't tell you that, either. I must

go now. Later, perhaps, I will return."
The Martian closed and carefully locked the door bebind bim as he left the room.

Later he returned with food. Keenan
, was ravenously hungry. He wondered
if the food was poisoned, but decided
I he was so completely in the power of
et he Martians that they would not resort
to trickery. If they wanted to still him,
they could find an easter way to do it
than to poison him. Silently Gurnwald
et assaulty to question him, the only
answer was a stake of the head.

"Tell me about Earth," the Martian said. He listened with intense eagerness to everything Keenan told him.

"Living there must be wonderful," he said, a deep pathos in the whisper of his thought when Keenan had finished. "But something is happening on your Earth that may be very dangerous to Mars."

The thought seemed to slip out unintentionally. The second he realized what he had said, surprised consternation showed on the face of the Martian.

tion showed on the face of the Martian.
"What are you talking about?"
Keenan demanded.
"Nothing, nothing," Gurnwald agi-

tatedly replied. "Forget that I said anything. You did not understand me correctly."
"The devil I didn't! I heard what

you said." Keenan glanced shrewdly at the Martian, and added, "You can trust me." "Can I?" Gurnwald eagerly ques-

tioned. "Can I really believe you?"
His pathetie eagerness to trust the Earthman make Keenan realize that in some respects, this Martian had the faith of a child. He wondered if all the race were like Gurnwald, strange, frightened children huddled on a dving

planet.
"I meant every word I said," Keenan

answered.

The Martian darted to the door of the room and looked out. Then he closed the door carefully and came back to Keenan. He made an adjustment of the thought transmitter that he wore. apparently reducing it to its lowest power, and drew as close to Keenan as

he could "I will tell you," the faint whisper

came, "why Thordon sought the secret of atomic power." "He told me it was to save Mars from

starvation," Keenan interrupted.

"HE lied!" the Martian fiercely answered. "It is true that Mars is and always has been starying, but he does not seek to save our planet. Looking through his telescopes, he saw your tanks and hombing planes. That is what he wants-tanks, planes!

"When he has learned how they operate, he plans to construct large fleets of them. Such things have never been used on Mars. He will construct them secretly, and by loosing them all at once, subjugate the whole planet to his will."

"The devil!" Keenan gasped. He saw the whole picture then.

Thordon was the leader of what was in effect the fifth column of Mars. Just as Carson the saboteur, boring from within, tried to cripple and hamper America, preparing the way for eventual subjugation of the United States, so

Thordon sought to seize control of Mars. Back in America, Keenan had been fighting fifth columnists. The same kind of grim, deadly battle was in

progress even millions of miles away on Mars.

"You don't want Thordon to do this?" said Keenan.

"I would give my life to overcome Thordon," the Martian answered fervently. "There are many others with me. But what can we do? He has vast nower-

"But he doesn't have tanks and

planes - vet," Keenan interrupted. "And be'll never learn how to construct them-not from me."

"That is good, my friend," Gurnwald said. "But--"

A step sounded in the corridor outside. Gurnwald heard it. He leaped

away from the Earthman, his face assuming a forbidding scowl,

The door opened. Thordon entered. Keenan merely glanced at the Martian. It was the person following Thordon

who held his gaze riveted. He gasped in startled dismay. Following the Martian was-William Carson! Carson, leader of the fifth

columnists in America, deadly master of intrigue and sabotage. Keenan had thought the enemy agent was still on Earth. But he most certainly was not on Earth. He was on Mars. He was here. Here! "You seemed slightly bewildered to

see me," Carson suavely observed. "How-how did you get here?" was all Keenan could answer him.

"To be frank, when you disappeared so mysteriously, I was no end intrigued. I thought perhaps you Yankees had discovered some method of producing invisibility. If that was true, I wanted to know how you did it. I waited outside the night club to see what would happen. Along toward morning, the light appeared again. I started to investigate it. The next thing I knew, I found myself here. I might as well add

that I was greatly astonished." So that was the explanation! After Thordon had overcome Keenan, be bad gone fishing again. His light projector was still focused just outside the night club. He had caught Carson the second

time Keenan glanced sympathetically toward Gurnwald. The face of the Martian showed nothing, but Keenan knew that his hope of saving Mars was

slim indeed now that Carson had appeared. Carson and Thordon were birds of a feather. They would act together with cruel precision. Carson would readily tell Thordon all the latter wanted to know. The result would be too bad for Mars.

There was only one good feature connected with Carson's appearance. The saboteur was no longer in the United States. He was no longer spreading propaganda in America, sabotaging industrial production, planting bombs,

THAT much was pure gain. What

Mars lost, America gained.

"What do you want with me?"

Keenan demanded. "Or is this just a friendly visit?"

"Well, for a long time we thought you weren't going to recover, and I just dropped in to see how you are making out," the enemy agent answered. "However, now that you have come out of it, I have a proposition to make."

"The answer is 'no' before you start."
Carson shrugged. "Don't be a sap," he said. "Whether you like it or not, we're going to take over this planet. You can't stop us, so why don't you be sensible and throw in with us? I don't mind admitting that we could use a man with your ability."

Keenan made an insulting gesture with his thumb and nose.

Carson colored. "If you want to be a dool, I can't help it. But I'm warning, you right now that unless you come in with us, we'll have you liquidated. Think that one over!" he flung back over his shoulder as he and Thordon turned and left the room as the door slammed behind them.

"We've got to do something," Keenan hissed to Gurnwald. "And we've got to do it right away!"

on it right away!"
"Plans have been made," the Martian

answered tensely. "We are to strike tonight. We will attempt to overcome Thordon and Carson before they know what is happening. They stay all the time within the laboratory that protects the light projector. This laboratory is guarded by dozens of automatic weapons. However, we have a means to secure entry. Our only hope is to surprise them. Are you," he locked closely at the Earthman, "are you willing to help us?"

"That's one question you don't need to ask," Keenan gritted. "You're damned right I'm willing to help you save Mars!"

"More is involved than Mars," Gurn-

wald answered. "Much more."

"What do you mean by that?"

"This," the Martian replied. "I

didn't get a chance to tell you before they entered. You have been unconscious for many days and so you do not know all that has happened."

The cold chill of a sudden fear shot through Keenan.

"What are you driving at, man?" he demanded. "Simply this. Carson and Thordon

made a bargain to help each other," Curwald told him. "Caron is to teach Thordon how to build tanks and planes. In return, Thordon is to belp him. They have been working on the light projector day and night. They have improved it until it can be accurately using it to polyect bombs to your planet. They have sent many bombs to Earth. They have sent many bombs to Earth. I do not know exactly where they have been dropping them, but I have many times heard Caron, say gloatingly,

"'You damned Yankees, how do you like that bomb in the middle of your arsenal!"

"Good God!" Keenan gasped.

"They're bombing arsenals in the
United States! They're sending bombs

from Mars. Why, that damned light projector works both ways. And the boys back home haven't got a chance in a million of finding out what is happening—or stopping it if they do!"

The fifth column of Mars and the fifth column of Earth had joined hloody hands! They were working together, the science of one aiding and supplementing the science of the other. Keenan could easily imagine what was

happening in America.

A bomb disting down as light ray from
Mars, landing in the middle of an artenal in the United States, would explace violently. All the stored munitions in that arenal would go with it.
It would be the Black Tom explosion
all over again. And not once but
dozens of times! Industrial plants,
steel mills factories all subject to myssteel mills factories. all subject to mys-

terious explosions. The plants would be heavily guarded, but the destruction would go on just the same. Within a month the country would

be mad with fear. Its splendid industry useless, it could not arm itself against an invading foe. And those bombs could easily be directed at the battle fleet. Battlesbigs, cruisers, destroyers—they wouldn't have a chance to defend themselves. The fleet would be destroyed. An invading army would land on American shores. The United States was doomed!

"Gurnwald, I'm with you to the death!" Keenan pledged himself. He crushed the Martian's band in a fierce grip.

CHAPTER V

Treacheryl

"THERE are guards, also," said Gurnwald nervously. "Slaves of Thordon, they keep watch constantly all over the laboratory. We will strike

t them down silently. Thordon and Careson are in the room where the light proejector is located. We will strike down the guards and be in the room before they know we are attacking."

The Martian held a long, narrow sword in bis band. Pressing close behind him in the dark, narrow corridor were eight of his comrades, similarly armed. Keenan made nine. They bad no weanans but their swords. The

light-projecting weapon was Thordon's alone.

"Where is Miss Phillips?" Keenan questioned. "If we are detected, and the fight spreads, she might be injured

or killed. Could we take her away before the fight starts?"

"To attempt to rescue her may be dangerous," the Martian demurred. "Remember, my friend, the fate of both our worlds hangs in the balance.

If she dies, I will be indeed sorry but it is better one should do so that millions may have a chance to live."

"I know," said Keenan. "You're

"I know," said Keenan. "You're right. But---"
"Does she mean so much to you, my

riend?" the Martian softly queried.
"Yes," Keenan answered simply.
"She means more to me than I can

easily explain. I would be much happier, knowing she is safe."
"Then we will make ber safe," Gurnwald replied. "She is in a room adjoin-

ing the laboratory. There is an entrance from her room to the laboratory. There is a guard outside her door, which opens into this corridor. I will strike down the guard. Then we will go through her room and be upon Carson and Therdon!"

Keenan's heart leaped with fierce exultation as be watched the Martian stride down the corridor. In the fight that was almost sure to follow, Betty

at least would be protected.

The guards in the building naturally

had no reason to suspect Gurnwald. Kcenan, peeping furtively around a turn in the corridor, saw the Martian approach the guard lounging outside Betty's door. Gurnwald, the sword behind his hack, strode forward as casually as if he had no other thought than making a social call.

making a social call.

The guard stiffened to attention.

Gurnwald leaped, the long sword flashing upward. The Martian had to kill

instantly and silently. A single outcry

from the guard would spell their door,

It was no time for false pity. The guard

was one of Thordon's men and if given

the onoortunity, would be as cruel and

as heartless as his master.

The surprised man attempted to leap back when he saw the sword coming, his hands dropping toward the dagger at his

belt.
Gurnwald's sword caught him straight in the throat. The cry he would have uttered went out a slit windpipe. Blood spouted gruesomely from his throat.

When Keenan arrived on the spot, Gurnwald was wiping blood from his sword. The Martian looked a little sick, but there was an unmistakable grimness about him. He did not even glance at the twitching body on the floor. Instead he produced a key from

a pocket and unlocked the door.

"Inside, quickly," the hiss of his thought came. "And tell the girl not to make a sound if she values our lives."

KEENAN went through the door.
The Martians crowded closely behind him. A girl was in that room.
Betty Phillips. They had reached her.
Now, no matter what happened they

would have a chance to protect her.

She looked up. Fright showed on her

face as they came crowding in.
"Betty!" Keenan whispered. "Betty!
I've found you!"

"You!" she answered. "You-" He choked down the impulse to take her in his arms. There was no time for that.

"Betty," he whispered, "I haven't time to explain everything, but we've got a chance—a ten-to-one shot!—to capture Carson and Thordon, to stop this hellish business before it goes any further."

"You have?" she questioned, in a monotone. Her eyes were fixed and glassy as she stared at him. Her face was chalk white. "You bave a chance,

John?"

"Yes. If we can charge their laboratory before they know we're coming, we'll win. Do you hear that? We'll win! Both Mars and Earth will she their chance for freedom. But we want you to be safe before we go through into the lab. You must leave this building at once. The guard outside your door won't stop you. He's deed, Don't make a sound as you leave. We'll take care of reverthing else."

"But--" she protested.
"Carson is an enemy agent," he continued. "He's a spy. I happen to know the F.B.I. was trailing him, back home. He's working hand in glove with Thordon. Betty, whatever you may have been, you've got to realize this. Carson is trying to destroy the United States! And we've got to stop them.

"Like a lot of other people back home, you may have sympathized with various movements in the past, without realizing you were being hetrayed. But you must know now how terribly you were misguided. Oh, I don't have time to explain. You've got to believe me!"

Keenan was suddenly sweating. He was torn between two terrible desires. He loved this girl and yet he did not quite trust her. And he had to convince her that he was right. She faced him, and her soul was in ber eyes.

"John," she breathed huskily. "Oh, wby did you have to be-" "All you have to do is believe me," he said huskily.

"I do believe you, John." "Thank heaven for that!"

lowing behind him.

ple like you!"

"I believe you-this much!"

She backed away from him. In the

still, silent room her sudden scream was a flaming dagger of hurtling sound. "Carson!" she screamed, "Keenan

has escaped! He's trying to trick you!" In the horrid silence that followed Keenan heard an answer come from the laboratory heyond. He also heard through the room. Jets of light were Gurowald curse, and leap past him, With the back of his hand, the Martian shoved Betty out of the way, kicked open the door, and leaped into the laboratory beyond, his companions fol-

Keenan did not, could not move. Betty lay against the wall where Gurnwald had shoved her. She wasn't hurt. Oddly, Keenan noticed that she was two of his companions. crying. Tears at that moment didn't matter to him. The only thing that mattered was that Betty Phillips had betrayed him. He had tried to save her

from danger, and she had repaid him with treachery. "You treacherous she-devil!" he snarled. "You're as had as Carson, as had as Thordon! I don't know when it will happen, but I know this much: Fate always arranges a payoff for peo-

SHE did not answer. From the laboratory there came the sound of fierce fighting. It roused Keenan to action. There was yet a chance that he might undo the damage this girl had done. Gripping his sword, he leaped through the door.

The glass cylinder of the light projector bulked high in the center of the room. There was a huge bomb in it

now, waiting to be sent hurrling out across space to Earth. Above the projector, the dome was open to the sky.* At the base of the projector was a knot of men-Gurnwald and his comrades. Facing them were Carson and

Thordon. Eight against two! But the eight were armed only with swords. Thordon had the same small light projector he had used to paralyze Keenan. Carson had a black-snouted automatic pistol, a gun that he had hrought from Earth with him. He was using it. The beavy thunder of its firing roared

leaping from Thordon's weapon. Gurnwald and his comrades were crowding forward, leaping with supreme bravery directly into the deadly wearons. And they were dying. As he came into the laboratory Keenan saw that three of the Martians were already on the floor. And two more went down. Five gone. That left Gurnwald, and

Gurnwald charged his enemies.

* It may very well be that Thordon, the would-be Martian dictator, actually utilized a principle of atomic power without knowing the full score of his invention. Obviously, the tremendously penetrating cone of light he projected to Earth disrupted the atomic structures of the objects focused upon.

Once disinterrated, the atomic mass was "lifted". or absorbed, through space up to Mars, where the atoms reassembled themselves exactly in the object stolen. Similarly, to bomb Earth, the bomb would have to be atomically discoved at the outset, be propelled down the pillar of light to its objective on Earth, and then instantaneously coalesced at the moment of impact.

Thus the effect would be the same as a projectile fired from a sun, or a bomb drooped from an airplane.

While atomic warfare is still in the realm of the future, the Second World War has demonstrated that war-makers are concentrating nowadays on the mechanical side of conflict. Weapons used today would not have been conceivable a quarter

century ago. At least it is known that through scientific experimentation-which involves the study of stomic structures-ordinary shells and axistion hombs are now for more deadly than in

the last war ... Ed.

"Forward, Mars!" Keenan felt the pulse of Gurnwald's thinking. "Win or die!" Whatever else that sad-faced Mar-

Whatever else that sad-faced Martian was, he was no coward. He had the courage to face death. Keenan felt a surge of admiration for him. When the going was tough, Gurnwald was a

the going was tough, Gurnwald was a lad to tie to. Carson's weapon thundered. The

heavy slug caught Gurnwald in the chest, violently shocked him backward. The F.B.I. man cursed. Gurnwald was down. And if Keenan charged directly into the weapons of Carson and

Thordon, he, too, would be finished. There was only one hope: take them from the rear! With leaping heart, Keenan saw there was a chance he might make it. Ducking behind the heavy equipment in the room, he raced clear around the laboratory. He found himself in a cramped allowe, directly behind Thordon and Carson. He was so close he could see the look of victory on their faces.

But—he was so close he could not use his sword. The long, slender blade simply could not be swung in such close quarters

He was weaponless!

Ahead of him he saw Gurnwald trying desperately to get to bis feet. The Martian was down. But be was still fighting. He was trying to get back into the battle, to join his two com-

panions.

Only there weren't two of them any longer. One had stopped a jet of light from Thordon's weapon. Like a frozen block of ice, he was slumping to the floor. There was only one other Martian left now.

John Keenan dropped his sword. His right foot went forward. His left fist started just even with his belt. It leaped outward, with all the weight of his husky body behind it. It struck

he Thordon just under the ear and at the or side of his jaw.
"That's for Gurnwald!" Keenan

"That's for Gurnwald!" Keenan raged. Thordon's head doubled over against

his shoulder. His arms went up in the air, the light projector swinging outward from his hand. He sagged to the side and down. He was out before he hit the floor.

hit the floor.

There's nothing like a pair of fists in close quarters. Keenan exulted.

Thordon was out. But Carson remained. And Carson was the more deadly of the two. More, he knew about fists and about fighting at close quarters.

d angry tiger, dropping into a crouch

The movement saved his life. A savage finger of burning gas leaped at him from the pistol in Carson's hand and a slug tore through the air above him. The roar split his eardrums.

"One miss is all you get!" Keenan shouted. His left leaped out again. He was

smashing forward from a crouching position and he did not attempt to hit Carson on the chin. Instead he almed at the latter's stomach. Carson saw it coming. He tried to twist aside, to bring the barrel of his gun down over the head of the F.B.I. man. But Keenan's fist drove forward.

The blow would have staggered an ox.

"Oof!" Carson gasped, air whistling from his open mouth. He sagged forward.

And Keenan straightened him up with a right to the jaw, straightened him up so viciously that the saboteur turned a flip-flop before he hit the floor. For an instant. Keenan did not real-

For an instant, Keenan did not (Continued on page 125)

CHAMPLIN FIGHTS THEAPURPLE GOD

by DON WILCOX

Wayne Champlin knew that he faced terrible danger coming back to his native island, but he had sworn to free his people from the Purple Slavery

EARING only his swimming trunks, W a ye c Champlin began to with. Through the levender mists of results of the control was ago with a faint purple has makes lift raft feel with two. And the control of the control of

ght.
"The Shrine!" he muttered bitterly

to himself. "Still burning."

Time was when that rim of purple fire had been the ruling power over his life. But ten years away from his native island had changed all of that.

Champlin swam easily. A miniature raft of bamboo stalks slipped along after him, hitched from his shoulders and neck by a lithe cord. On the raft was strapped a battered traveling beg containing his personal effects. His people would be surprised to see him. No doubt they had thought him drowned...

A splash of water disturbed his thoughts. He glanced hack at his cargo, then stared in frank amazement. His raft held not one traveling hag hut two. And clinging at the end of the towline was a girl.

"Champ!" the girl called breathlessly. "Champ! How much farther are

Wayne Champlin drew the end of the makeshift raft under his muscular arm as if groping for support. He gazed in speechless surprise.



CHAMPLIN FIGHTS

THE PURPLE GOD

by DON WILCOX

Wayne Champlin knew that he faced terrible danger coming back to his native island, but he had sworn to free his people from the Purple Slavery

EARING only his swimming trunks, W ay ne Chample began to swim. Through the lavender mists of evening he could see his destination four miles ahead—a low conshaped island. The pinnacle of the cone was aglow with a faint purplish light.

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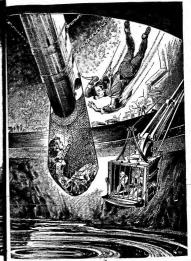
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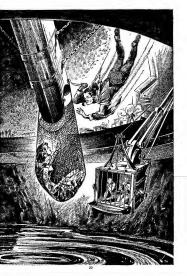
His raft held not one traveling bag but two. And clinging at the end of the towline was a girl.

"Champ!" the girl called breathlessly. "Champ! How much farther are you going?"

Wayne Champlin drew the end of the makeshift raft under his muscular arm as if groping for support. He gazed in speechless surprise.







"Champ, don't you know me? It's Elsa!" Wavne Champlin paled. Here in the

Wayne Champlin paled. Here in the final plunge from the real world hack to his old world of superstition, must he be haunted by figments of his imagination? This could not be real. The clear gray waters and the lavender mist of evening had conspired to fool him.

And yet—
The girl smiled at him expectantly.
Water dripped from her smooth white forehead, her long hrown eyelashes, her full red lips. The waves washed over her hare shoulders. Her scanty bathing attire of filmsy silk underthings clung closely to her slim shapely body.

"Elsa! What are you doing here?"
Wayne Champlin's lips spread in dismay and his white teeth gleamed fiercely. "I told you 'good-by' hack in the States..."

"And I told you I'd follow you to the end of the world," the girl breathed tremulously.

So she had kept her word. She had fled the city's slums to follow him, not knowing where the adventure would

"But Elsa, I told you not to-"

"Oh, Wayne!" The girl's eyes filled. "Aren't you the least hit glad to see me?"

Her white fingers locked around his neck appealingly and her face tilted toward his. She searched his eyes.

"I've had such a time following you. Champ. I was on the same boat with you—the captain's wife kept me—but I was afraid to tell you I'd come, for fear you'd send me back. I didn't even know where you would lead me—but I knew there was danger—and I loved you so—"

Wayne Champlin caught the lithe form in his strong brown arms and kissed the lips and eyes and forehead feverishly. For a moment the two

swimmers slipped beneath the water's surface in forgetful ecstasy, then bounded up hreathlessly and caught the tiny raft for support.

"I'm terribly glad to see you."

Champlin assured her in his low rich
voice. "Don't ever doubt it... But
it's like I told you that night I left you.

th's like I told you that night I left you, Elsa..."

That vision had been a mystery to Elsa from the first. She had tried to

understand. Her quick intuition had told her that Wayne Champlin was something more than the handsome, silent, dreamy lifeguard at the city beach. But though Elsa, a waif from the slums, had found her way into his heart, his people remained a mystery. "If my necole are still under the

"If my people are still under the yoke," he had always said, "I've got to help them. My own happiness can wait."

NOW Elsa gazed at the little isle, wondering more than ever what strange magnetism called him back. But he had spoken of a fight that awaited him. She had not followed him to this lost corner of the earth, only to let him throw himself away on some foolish danger.

"I'll go with you," she said firmly. He protested, but she insisted that she could swim that distance alone, and would do it if he chose to shake her loose from his raft.

loose from his raft.

"You win," Champlin sighed. "Come
on, I'll take care of you."

Elsa would be about as safe on the

island as a rathit among hounds. But darkness was falling. She might see his people without being seen—perhaps there would be a ceremony at the Shrine. At any rate, tomorrow be would send her safely on her way back to America before he hegan his fire-

works. Swiftly they swam through the mild semi-tropical waters. When they turned to swim on their backs, they gauged their directions from the first bright stars of the night. The little raft containing their worldly possessions glided along after them.

When Wayne Champlin had last system these waters he had heen a boy of twelve. It had been good sport to swim out a mile or two to greet passing steamers. Of all the hoys, Champlin had been the hest swimmer, and the

most daring

Once he had swum too far. At least the captain of the passing boat thought so; he was afraid to let the boy swim back. The crew took young Champlin in. That was how he was lifted out of his own little world of mystery and supersition and dropped down in the United States.

He had raced through his years of schooling; every new truth he had learned was a bombshell that shartered the superstitions world of his childhood. At last he had humed to go hack and unleash these truths that would set his fear-crushed people free. Two sumners as a lifeguard, two winters of prefessional diving and acroshatics, and his

savings were equal to the trip.

But now, as the island came closer,
Champlin was painfully aware that he
did not know all the answers. The
tales of occasional ghosts of sacrificed
islanders he had simply rejected as
falsehoods. But the unsolved mystery
of the all-powerful Purple Fury

burned like an electric torch in his mind. "That little spark of purple fire is getting hrighter," Elsa observed innocent-

ly. "Have you noticed it?" "The sky's getting darker—and we're getting closer."

"It can't be a volcano-"

No, this was not a volcanic island; only a hill of limestone jutting out of the water. Terraced? Yes, the island-

lers did that many generations ago. Now leach class lived on its own level. Haff the population—five or six hundred people—occupied the lowest level, circling all the way around the hill.

THE island was two miles across, but no one ever went straight across; roads and paths circled the cone on their own level, or spiraled to the next levels. The top of the cone-shaped hill was not more than a hundred feet above sea level—really not much altitude.

But that altitude was the most important thing in the world to the rich, powerful Sammiteers, whose ornate mansions were within a few yards of the top. Their elevation set them a world apart from the poor, mean, mis-

erahle Græbbers at the foot of the hill.

"I was a Grubber," said Wayne
Champlin in a tone that left volumes
unsaid. He might have added that his
great-great grandfather had been a
prosperous sea captain before a shipwreck put him ashore, crippled and
broken. "Pm still a Grubber."

broken. "I'm stall a Grubber."
Elsa's interest sharpened. Champlin swung the little raft in front of them. Together they planted their forearms and chins on the end of it and kicked along over the darkening waters effortlessly, oushing it ahead of them.

"Perbaps," Elsa facetiously probed, "you've come back to build your own mansion on the very top."

"A splendid ideal" Champlin snorted. "But it happens that top is very much occupied. It belongs to the smoky monster---"

"Monster?"

"The Purple Fury. He lives in that ring of purple fire at the top. He's the invisible ruler. One whisper from him sets the whole nation trembling."

The girl edged closer to Champlin's warm shoulder.

It was nearly pitch black when they

reached the island. They dressed in dry clothes and hid their luggage by starlight, then ascended the rugged cliff to the first-the Grubber-level.

Fields and huts were dimly visible as they slipped along through the blackness. The only signs of life came from

near the hilltop. They threaded their way up the terraces cautiously. Now they could see a host of yellow

torchlights. The clearing below the summit was alive with people. "An assembly at the altar." Champ-

lin whispered, "Listen! They're chanting! It's a sacrifice!"

Elsa heard a hewildering conglomeration of sounds: the low ominous roas of the numbe fire on the altar: the hollow, mocking chant: hut above all, the angry shouts and wails and mutterings from the lower half of the assembly.

"Listen to them roar!" Champlin exclaimed, "That's my people! The Grubbers! See-" He quickened his pace. leading the girl by the hand. "Look at

them shake their fists!" Elsa saw. The assembly was divid-

ed. The line of division was exceedingly sharp. It consisted of a row of spears in the hands of husky men wearing purple and gold uniforms. They were a wall of protection for the upper assembly, the ostentatious chanters.

The lower assembly, more properly a moh, was being held at spear's length. Lacking weapons, the masses were nevertheless protesting as violently as they dared. Now and then a spear struck out, and a cry of pain cut the air.

What it was all about. Elsa could only guess. But as she and Champlin approached, too close for comfort, she caught glimpses of the Gruhbers' torchlit faces. Anguished faces they were, taut with pain. But there was something familiar in those countenances, ziolent as they were.

And that was Wayne Champlin. His

strength and his vision was in every face. Something tugged at Elsa's very soul. These were Champ's people!

A MOMENT later the violence reached its peak and the scene became one of unspeakable horror. A wave of Grubbers charged at the line of spears. They charged in arrow formation, and the front man spread his arms, seized several spears, and plunged them in his body. The wall of spears broken, the others poured through-but only for

A heavy sullen roar came from the altar. The chanting stopped, charging Grubbers froze. The shouting and wailing gave way to a gasp of terror as wide as the hillside. All eves were on the altar.

an instant

Suddenly there appeared above the circle of fire a buge smoky monster. In size, it might have been an upended locomotive. In form it might have been a gory-mouthed demon patterned on buman lines. Its face opened bungrily, its head drew down, its arms reached to grab.

The whole body was enshrouded in purplish black smoke, and before anyone could so much as shrink, the smoke thickened and the sight was lost from view

"The Purple Fury!" Elsa gasped. "It's a lie!" Champlin hissed. He held the trembling girl tightly, and whis-

pered staunch angry denials of the thing they had both seen. But his whisper came through his teeth, and his own body involuntarily trembled. Again the Purple Fury roated, and

the people fell back in terror; all excent the corps of officials attending the details of the sacrifice. They were busy carrying out the dastardly deed that the smoky monster had commanded. For the monster was hungry.

"There's no stopping 'hem pow."

Champlin whispered bitterly. The mob had tried to break up the ceremony, but the sight of the Purple Fury had paralyzed them with terror, "Here comes the feeder?"

Now a long beam hegan to rise like a derrick arm. It was a thirty-foot beam, a trough in shape, like an elongated bath tub or a deep-walled slippery-slide. The hollowed-out surface gleamed with a high polish.

The end of the feeding chute rose swiftly. A decrepit-looking old man occupied that end. The lower, the pivot end of the chute, bovered over the blazing altar. The man began to slide.

With a piteous outcry like that of a dog in a vivisection surgery, the man shot down. As he flew out the open end, he slapped his bony hands over his eyes. Then he was lost from view forever within the ring of pumple flames.

CHAPTER II

The Living Ghost

NOW the upper congregation chanted, with a note of sadistic victory in their hollow voices. The lower assembly raised its defiant cry. Its ranks surged threateningly.

But the prize for which the Gruhhers had charged, their comrade's life, was gone now. The wall of spears pressed them back.

Champlin watched them proudly, "They've got plenty of strap!" he muttered. At least the past ten years hadr'u dented their spirit. But Champlin knew only too well how rarely his people ever saved a victim from the sacrifice. Whenever a victory seemed near, the hideous Burple Fury would turn visible. That fearful sight would paralyze their blow.

Now under the pressure of spears, some of the Grubbers knelt and pre-

b tended to join the chant; others retreated down the hillside. There were wounded and dying among them, the heroic ones who had charged the spears. "But why," Elsa asked, "was that

man sacrificed? And how can those other people sit there and chant as if nothing had happened? Haven't they any feelings?"

"Not for the Grubbers," Champlin answered, "The chanters are mostly Higher-ups, They live on higher levels

than the Grubbers . . ."

There was the key, he explained bitterly, to the island's social system. The
highest of the Higher-ups were the
Summiteers. Their closeness to the

Purple Fury gave them an iron hand over all other levels. Theirs was the privilege of hearing and interpreting the Purple Fury's commands. "Those handsomely dressed people in the first few rows are Summiteers. If one of them decides a Grubber should

be punished for some offense, he will declare that the Purple Fury hispers, ored. When the Purple Fury mispers, it usually means tragedy for the Grubbers. Someone is fed to the flames." "Then this man who slid into the fir

was guilty of some crime?"

"Probably the crime of stealing grain from his own field—vulcatching, as we call it."

Suddenly the attention of the multitude was again captured by the feeder. It swung upward. The chanting ceased. The throngs of Grubbers who had started down the hillside turned. Their shocked eyes beheld another sacrifice, obviously a surryise.

The gleaming trough contained a tiny figure—a child! Cries of terror rang from the hillside. The child slid down, screaming, and shot into the flames!

Elsa hid her face in her hands. When she looked again, she saw that the enraged mob had some beyork. They hurled rocks and swung torches and clubs; they wailed and cursed and stormed; they surged into a solid group and fought their way back against the wall of spears.

But again the low sullen roar of the Purple Fury thundered forth, And again, for an electrifying instant, the gi-

gantic demon reappeared.

The mob halted. The glowering countenance was obscured in a smoke cloud:

but that moment's glimpse had done its work. The Grubbers fell back. Reluctantly they resumed their retreat down the

hillside, under the urging of spears. A few of them hovered over the young mother who had collapsed, and they bore her away tenderly.

For many minutes Wayne Champlin did not trust himself to speak. He breathed hard, His white teeth were

set.

The ceremony was over. People of all classes made their way toward their homes.

T "HOUGH it was after midnight, the officers in purple and gold paraded in full force, marching noisily up and down the roads. They were the Dispar, or more properly the Disciplination, who ranked next to the Summitteers themselves. They were the dashing military force. Their spears and broadwords were the teeth of the island's laws. The Purple Fury's sacred shims, as conceived but the Summitteers, were

For two full hours the Disps strode through the dusty roads of the Grubber level, to make sure that the rebelllous toilers were quiet for the night. At last they returned to their headquarters, and soon their torchlights were extinguished for the hrief remainder of the night.

theirs to enforce.

Elsa and Champlin circled the island

on the Grubber level. A few of the shanties were lighted. A few people clustered together at each of the bereaved homes

Far from being broken in spirit over their losses, their talk sounded as if they were juhilant over their gains. Elsa was

amazed at the overtones of enthusiasm.
What did it mean?
"It means that they've got the great-

est fighting spirit you ever saw,"
Champlin declared as they approached
one of the little houses. "The odds are
all against them, but they won't be
downed. And they gave the Higher-ups
an awful close run for their money to-

g night."

Elsa shuddered involuntarily. She knew that if it hadn't heen for protecting her, Champ would have led that plunge against the spears. Nothing he could have prevented could have done would have prevented

those sacrifices tonight; nevertheless, Wayne Champlin might have recklessly given his life in the effort. Panic shot through Elsa with these

thoughts. Secretly she resolved that she would never leave this island until Champ would go with her. "I'm sending you back at dawn." he

said, as if reading her thoughts. "But first, you'll have a chance to meet some of my people."

He called softly to the group of people who sat near the entrance of the shanty.

"Who is it?" someone demanded.
"Wayne Champlin. I've come back."
Torchlights and incredulous faces
gathered around the strange young

couple. Wayne Champlin repeated his claim, announced that he had come back to help them fight their fight, explained that he had brought a friend with him. The Gruhhers studied him dublously.

But his story of his departure from the island ten years ago impressed them. "So you're Champ, are you?" said one of them, a short young man of Champlin's own age. Without warning, the speaker tossed a knife. A torchlight showed it coming.

It was a long-bladed corn knife, aimed for somewhere above Wayne Champlin's head. Champlin reached into the air and caught it by the bandle. The next moment he and the short young man were gripped in the handshaking of long lost brothers.

shaking of long lost proteirs.

Bosom friends were "Shorty Joe"
Sanburn and Wayne Champlin, and
the knife-catching was a fond stunt of
their boyhood days. At once there was
an impromptu rally around Champlin
and his girl friend. In soft but exultant
voices the news quickly spread around
the lower level of the island. Young
Champlin was back! Young Champlin,
grown to manhood!

IT was a sleepless night: the night's tragedies had made it that; but Champlin's homecoming ushered the

dawn in with clandestine rejoicing.

"We can't say we've gained a great
deal of ground in the past ten years,"
said Shorty Joe Sanburn, "but we
haven't lost any. If we could once get
our hands on some weapons, we'd fight

our way to the summit."

The mention of the summit called up a fearsome picture in the minds of the Grubbers who had gathered around to

join in the talk.

"That damned demon is a fake!"
Champlin declared solidly. "I've studied and learned about things, and I know. There can't be such a thing!"

There was an uncomfortable silence. Several wistful glances shot toward the graying darkness, in the fear that some Higher-ups might be listening.

"Yes, I saw what you saw tonight," Champlin continued. "I can't explain it, but I still say it's a fake."

Shorty Joe picked up the argument. "But there's where they've got us. One way or another it does consume us, even if it is made of thin air. And none of us knows who'll be next."

"Thin air!" someone mocked. "The old devil's thicker than your head!"

For Champlin's benefit the group rehashed many past incidents. Elsa listened with bated breatb. The unspeakable cruelties and oppressions were almost too much for her. That there should be a regular custom of murder practiced upon the first-born of each family, in the name of reverence for the hideous smoky beast, seemed the height of outrage.

Only the lower class families, to be sure, were victims of this child killing. To her horror, Elsa learned that Wayne Champlin himself was a first-born child. Miraculously he had escaped the sacrifice. But his parents, when their crime of hiding him had been discovered, had naid bitterly with their own lives.

"Back of it all," Champlin declared with his new-world insight, "is the food shortage. If these sacrifical murders didn't keep our numbers down, we'd soon outnumber the rest of the population. Then we would demand a larger share of the food we raise, and the Hisbersum sould have a revolution on

their hands. That's why they murder us in the name of a horrible superstition." "Then you don't fear the Purple Fury?" someone asked, breaking a

tense silence.

"I've come back to blast the Purple
Fury to hell!" Champlin shouted.

Shorty Joe leaped to Champlin's side, slapped him on the back, shook his arm. "Tell them about it, Champ, old boy! Maybe they'll listen to you. They won't

Maybe they'll listen to you. They won't to me. I've tried to tell them that the monster is nothing but thin air—"
"What makes you say it's only thin

air?" Champlin demanded.

"Because once during a ceremony, I hurled this corn knife through it." The group mumbled skeptically, One

old man complained that the Grubbers possessed too few knives to be throwing any of them away. It was obvious that everyone had beard Shorty Joe's story before, and that no one believed it,

"I've come back for business," said Wayne Champlin, rising and clenching his fists. The group rose with him, and for a second time Elsa saw his indomitable courage reflected in their faces. The very air was charged with the magnetism of decision.

"TATE'LL follow you through bell and high water, Champ!" said the old man. Then with a note of caution he added that plans had best be laid on the quiet. Dawn was at hand now, and the ever vigilant Disps would soon be watching from their upper level. Their field glasses were sharp to catch signs of trouble.

"I'll talk over my plans with you people through the day," Champlin advised. They must go to work as usual, and not cross the path of a Disp if they could avoid it, "Before it gets any lighter, I'll take my girl friend over to the mainland to safety. I'll be back with vou soon."

The Grubbers departed quietly; inwardly they seethed with enthusiasm. Before breakfast was over, every Grubber on the island would know that a revolution was brewing.

Elsa and Champlin circled to the opposite side of the island, where their raft and luggage were stored. Determined as Elsa was to stay, she saw that she would have to leave. These Grubbers were ready to follow Champ's every order. She must do the same. But her whole soul was already in

this fight-her every thought of Champ. who was her very lifecliff and break an arm or sprain an ankle. Then she would have to stay . . . Slip! Zip-splash!

Stubbornness, recklessness and mischief were all combined in that impul-

sive misstep. Over the cliff and into the water Elsa plunged.

On the instant Wayne Champlin dived after her. He dived in shallow water. It was low tide, and he feared the girl had struck a rock floor a few feet under the surface.

But the water was deep here; it had carved out new caverns beneath this surface in his ten years of absence. Champlin followed the girl down. He seized her and she came up in his arms. With one searching look, he swept away her pretense of hurt and drew a guilty smile from her lips.

"That's the same smile you gave me the first time I rescued you at the city beach," be said, his dark eyes burning. "I'll keep it in mind until I see you again. Let's be off." "Listen!" Elsa hreathed.

Above the lapping of the waters harsh voices sounded from the distance. A hundred yards or more along the shore cliff were three figures, silhouetted against the vellow dawn. Two of them were Disps, the third was a stocky ragged Grubber.

"Look! They're beating him!" the girl gasped.

Champlin plunged for the shore, "They've got him for vulcatching!" Elsa had already learned about the

crime of vulcatching. The name came from the vulcatcher, the vellow hird that would steal grain out of the fields. Grubbers who hid away some of their crops in caches, instead of turning it all in to the storehouses of the Higher-ups, were spied out by the Disps.

Champlin paused at the brink of the cliff.

"He'll be lucky to get off with a heating!" Using their spears as rods, the Disps

laid on. Their arms lashed the air with

swift rhythm.

"They—they're killing—" The girl's
voice choked.

"By God! It's old Perribone!"

Champlin hounded over the wall, Elsa tried to pull him back.

Elsa tried to pull him hack.
"No, Wayne! Not yet! No!"

HE was away from her. Then he stopped, and his long shadow that fell before her was motionless. She saw, too, the strange thing that was about to happen.

From a few yards beyond the lashing spears a new figure appeared—a bushybearded skeleton of a man wearing almost no clothes. He scrambled up over the jagged hank. A heavy stone was in each of his hands. He touched them to the ground as he hounded along, for

one of his legs was twisted like a pretzel.

He pounced with the strength of a
madman. The Disps were caught unawares. His stones crusbed down, the
first on the back of a head, the second
on a terrified face. The Disps went

down.

The wild man hammered them as if he were killing rattlesnakes. He pounded their flesh into the yellow earth.

he were killing rattlesnakes. He pounded their flesh into the yellow earth. Champlin raced to the scene as hard as he could go. He saw his friend Perribone roll out of danger weakly. Then

the beaten man lay still.

But before Wayne Champlin reached them, the hushy-hearded, mad-eyed cripple loped over the cliff and out of

sight as swiftly as he had come.

Before Champlin now lay three
bloody masses of human flesh. The two
in the uniforms were battered beyond
recognition.

The third, old Perribone, opened his eyes to look up at his young friend. "Champ!" he whispered. "They told me you'd come—" "Take it easy, Perry," said Champlin,

examining the man's lacerated flesh.
"You've got to live. We need you!"
The battered, white-faced man nodded weakly. But out of the corner of

his eye he could see the two dead Disps. He realized that hell was about to hreak loose.

From the Gruhbers' shanties people were coming—too many of them. Their

were coming—too many of them. Their glimpse of the fight had routed them out like bornets. They had forgotten caution. "Go back!" Champlin shouted. "For

God's sake, go back!" We waved at them frantically.

It was too late. Observers in the Disps' headquarters had seen the crowd gathering, and a crowd was their dish. Like a hattalion of soldiers hurled out of a catapult, the purple and gold men stormed out of their harracks.

In a moment they were on their way down the hill full speed. Not running, nor riding—but stiding! They came it ad ine of ski jumpers, sliding down the mile-long slippery slides that led from the food storehouses to all parts of the island. In a few minutes those chutes would convey the morning's rations of food. But in an emergency like this, they bore the cruel instruments of death.

On greased soles the Disps rode. Their silk shirts fluttered in the wind, the yellow feather of each headdress cut the air, each black sword or spear waved aloft with the promise of slaughter. In a swift stream they came on, as if skimming over the land in upright flight.

"We're in for it!" Champlin mut.

"We're in for it!" Champlin muttered. "Who was it that dashed these devils' brains out, Perry? He's a hero if he can get away with it."

Perrihone stared glassily. He was

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"Who was it?" Champ demanded. "Was it old Jake Donzel?"

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"It was . . . still, it couldn't be," the dying man gasped. "Jake's been dead . . . three . . . years."

CHAPTER III

Behind the Bars

L EAPING from the ends of the bill-side chutes, the Disps came on the run. At once Wayne Champlin and his dying friend and the two crushed corpses were encircled with swordsmen. A second circle formed around the first:

the circumference of spears pointed outward to hold off the gathering throngs of Grubbers The captain of the Disciplinarians strode up last of all. A path opened

for him and be marched to the center of the ring, fuming with rage. Upon critical inspection of his two dead men

he roared like a wounded bull. He swung his broadsword menacingly and took a step toward Wayne

Champlin. "Well?" "They were beating Perribone with

spears." Champlin spoke up sharply. "Someone came past and stopped them."

"Stopped them!" the captain bellowed. "Someone! You'll roast in the Fury's teeth for this!"

"Sorry, but I can't claim the honors,"

Champlin snapped. "Honors!" the captain fumed. "Why, you damned defiant- Who the devil

are you? Where'd you come from?" "I'm a Grubber. I was born here," "You're a stranger! I never saw you

before." "I've seen you," Champlin replied coolly, "You're Ivan Scorpledge, the

cantain of the Disps." The captain drew back in surprise. continued, biting his words savagely, "that you conducted John Champlin and his wife to the Shrine some sixteen vears ago!" Captain Scorpledge went white. His memory shot back to the incident of a

"I haven't forgotten," Champlin

first-born child who miraculously escaped the Purple Fury, but whose parents paid with their own lives when

their guilt of biding him was found out. "Young Champlin!" Ivan Scorpledge bissed through his teeth. "I

think I'm going to enjoy this." A sickly mean escaped the lips of old Perribone. His back was broken, his lifeblood was leaking away, but he was still keenly conscious of what was hap-

pening "Champ . . . didn't . . . kill . . . "

"No? Then who did?" "Iake ... Douzel ..."

"More of your damped ghost stuff!

Get up from there, Perribone! You'll answer to the Purple Fury! Get up!" The dying man responded with a

slight sneer. There wasn't any get-up left in him. "What the hell?" one of the officers muttered. "A mangled body's no good

to the Purple Fury. Besides he won't live till feeding time." "You're right!" Scorpledge snapped. and with that he swung his sword over-

head and brought it down with terrific force. The stroke severed Perribone's head from his body.

Elsa, watching from the edge of the cliff, saw the head fall away. She saw the swords wave and heard the Disps shout their orders. On the instant the

circle broke into motion, With Champlin, their only prisoner, in the center of the formation, the Disps tore away on a dead run.

Zigzagging along the hill trails at full

speed their shouts fell into a rhythmic, savage, deep-throated chant.

"Feed the Fury! Feed the Fury! Feed the Purple Fur-ee!"

IN their wake they left a few fallen Grubbers, stout-bearted, foolhardy rebels who had given chase only to be struck down with spears. The dashing Disps stopped near the summit, at the

low black door in the hillside: a prison cell carved in the living rock. Elsa was stunned beyond words. Listlessly she joined the throngs of Grubbers. They were a panting,

of Grubbers. They were a panting, fuming lot, full of flaming fury, but without a ghost of a chance to fight. "We're paralyzed!" muttered Shorty

Joe sullenly. "We were all set to follow Champ. Here we are like so many limbs on a tree and a cyclone carries the trunk away."
"Trunk," Elsa echoed absently. Then

"Trunk," Elsa echoed absently. Then she thought of the traveling bag that Champ had brought. Champ had spoken of weapons—

But the Disps were a jump ahead. A small detachment had been left to take care of the bodies, and another small party had started to search the shoreline for the rumored ghost of Jake Douzel.

This group had at once stumbled upon the two bags of luggage. They came up over the bank proudly carrying their plunder. Several of them were armed with shining pistols, and adorned with arrogant grins as if confident that they had nipped a revolution in the bud. Hootine and ieering, they chased away.

The Grubbers turned to the food chutes and awaited their breakmasts. Elsa was one of them now. The food that slid down the long slides was far too scanty; for however much the keepers of the storehouse might put in at the top, each of the upper levels had the privilege of taking out all they wanted. Only a small fraction of the food found its way to the chute bottom.

But such as there was, the Grubbers shared freely with Elsa.

Through the day they talked in low voices. They went about their work as usual. Frequently a party of Disps would come chasing around the hillside, or their colors would be seen flying down the food chutes. But the Grubbers were not easily intimidated. Desperate plans grapevined through their ranks. They must save their leader!

and the property of the consoling rumor as prode The Purpe Fury had not yet whispeced a judgment regarding Wayse Champlin's guilt. Utili a whisper was heard, Champlin would stay in prison. Elia could not step. Her new friends had warned her that it would be suicided had warned her that it would be suicided heard was countried by the prison. The best' own scouts had tried, were still trying, under the blanket of darkness. She must wait until communication was established. Cham, if he could be con-

tacted, would be sure to have a plan.
Shortly before dawn Elsa heard low voices. A scout had gotten through the sleepy guards for a moment's chatenough to learn that Champ did have a plan. If he were only allowed to stay in prison long enough—

Elsa didn't wait to hear more. She slipped out the rear door of the shanty and threaded her way through the waning blackness.

WAYNE CHAMPLIN was alert to everything. The smell of limestone, mingled with the fumes from the Purple Shrine, filled his nostrils. The dampness of the stone cell was upon his ears, for be had spent the long hours listening to the mysterious roar that resounded through the floor of bis cell.

"It's only the roor or as cell.

"It's only the roaring gas that feeds
that damned blaze," he kept telling bimself. Then he would listen again; then
curse himself for conjuring up demons.
Demons! Shrine! Sacred fires—

hit

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ed those superstitions to bits. Why, this was nothing but an inexhaustible gas well!

BUT that fact got him nowhere. If he couldn't break out of this fail before some smooth-tongued Summiteer laid claim to hearing the demon's whisper, his little mutinous flash in the

nan was over. Champlin had no doubt on one score. He wouldn't be chewed up hy any mythical monster. He'd be cremated!

Yet if they would only dilly-dally around a few days till he could get his plan well laid it wouldn't make any difference what happened to him. Except for Elsa. Elsa! Had she seen?

Did she know he was here - or had she struck out for the mainland when be left her? Had she seen him (all, on that chase up the hillside-seen him fight and try to break out, only to be jahbed with spears like a tiger and dragged by a rope to these prison

hars . . . "Champ!" came a low whisper. "Chamo! Are you there?"

Champlin came up with a start. Through the nearly impenetrable gray of the dawn he saw Elsa, her half-clad white form camouflaged against the limestone wall just outside his bars. At

once his face was against hers. "Champ!" the girl breathed. "Your hands!" She felt the bloodstains over his arms and chest.

"I'm okay," he whispered tensely. "But you won't be if you stay here." In desperate tones he warned ber. "Don't waste any time getting back. Have Shorty Joe get through tomorrow

plan. And be sure to get the guns I brought-" An awakening groan from one of the guards cut their conversation off.

Champlin gave the girl's arm a slight push, a signal for her to run. The guards roused up. Elsa ran.

Abruptly she stopped. In the road before her stood Ivan Scorpledge, She could not mistake his hulking outline nor his jarring growl.

A path leading up the hill was barely visible in the gray light. Up was a dangerous direction, but she had no time to think of that. She bounded like a rab-

Scorpledge plunged after her like a wolf, seized her hair, grabbed her shoulder. His ugly brutal smile bore down upon her.

"So you're the gal that came with Cham-" Slap! Her hand struck him across

the cheek He laughed through his teeth. "Scrappy little devil, ain't you! You've got

a kiss for me, I'll bet!" The grip on the girl's wrist tightened. She uttered a half-stifled cry. She squirmed and fought but the big man hurled her brutally to the earth and

laughed at her. At that instant footsteps came slapslapping down the path from one of the vaguely visible mansions. Scorpledge

recoiled. "What the hell?" snapped a strange voice. "Trying to make off with my girl friend?" "Your girl friend?" Scorpledge

harked. "What the devil are you Summiteers doing up this time of morning?" The arrogant young Summiteer re-

torted with sharp sarcasm, "Saving our prayers to the Purple Fury. And I just heard a whisper, night if he can, and I'll give him my

Scorpledge," he faced the big man with an insulting glare, "that the girl's going to be mine as soon as--"

Elsa heard no more, for she leaped to her feet and scampered away. Her heart was beating furiously. She thought surely the men would pursue ber; hut they were deadlocked in a glare at each other. She raced down the zigzag trail to report her findings to Shorty Joe Sanhurn.

Through the swift, intense day she wondered about the sarcastic young Summiteer. Evidently be had awakened out of a light sleep, for he had been dressed in sleeping garments. Little did she guess that he had watched her through field glasses on the previous day, and was watching her pow, plotting

and planning her fate.

But most of all, she wondered about Champ and whether Shorty Joe could reach him before another dawn, and what their plans would be when Champ learned that the guns were gone.

Before another dawn—fate was des-

tined to strike!

CHAPTER IV

Into the Inferno

THE sun went down, the sky darkened. Torchlights ascended the spi-

ral roads.

As in the grip of a nightmare, Elsa followed along with the others. The Grubhers were whiter and quieter than ever before. They seemed stunned, paralyzed. Or were they strung through with electric tensions that would un.

leash all hell at the touch of a trigger? They carried their few corn knives, their largest torches, their wooden-handled metal-tipped tools. They carried stones. They trudged as if they were walking an endless treadmill.

Now the Higher-ups were all assembled in orderly fashion, and their section of the hilltop was demarcated by a fence of spears. Above them the Shrine burned with its usual brilliance, no more ress. Their orange torches were pale

in contrast; just as their lust for this orgy, so they pretended, was pale beside that of the smoky monster, their god.

that of the smoky monster, their god.

A large party of the purple and gold

Disps now rushed, in step to the rhythmic "Feed the Fury!" to the billside

prison.
Elsa edged away from the thronging
Crubbers. She skipped into a deep
shadow, followed it down the hillside a
short distance. It was the shadow of
the long-armed machine — the feeding chute. She hesitated, wondering
whether she could dash to the prison
door before the Dissp finished their

hloodthirsty ritual of chanting and circling.

Suddenly the arm of the feeding machine swung to one side, and the girl stood in the full light of the purple blaze. She ran.

"One word with bim!" sbe cried through her breath. "One last word!" "Get back!" a voice shouted at her. It was the young Summiteer who had challenged Ivan Scorpledge. "Don't be

a fool!"

Then Ivan Scorpledge himself took
up the cry, as if prompted by his

superior.
"Get the hell out of here!"

Other Grubbers had followed Elsa in her foolhardy dash, and at once the whole weight of the Grubber mob surged toward the prison.

Stones flew through the air. Torches turned into clubs to whip through the blackness, sending off comet tails of red sparks. Hoes and rakes and axes flasbed, and here and there a corn knife gleamed.

The ranks of the Disps trembled momentarily. Swords slashed out and corn naives went down. But it was not a sword nor a spear nor a club that cut the battle short. It was the barking of nistols.

Crack-crack-crack! Crack-crack!

Five Grubbers tumbled and kicked and changed to lifeless beaps for their fellows to stumble and trip upon.

Crack! Crack! A woman and ber bushand fell. The arrow-bead of the mob stalled. The Disps nimbly ad-

vanced, gunmen foremost. The Grubbers moved the only way

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they could move-hackward. Even as they retreated, a few of them fell

wounded or dead "Hold it!" the arrogant young Summiteer snapped, and the bulking captain of the Disciplinarians repeated the or-

der in a loud voice. "Hold it! Keep 'em back! Get on with the ceremony!"

The battle had dealt the severest of setbacks to the Grubbers. Held at bay. they viewed their unfortunate comrades strewn about the ground. They waited, eying the poised guns, hoping for a chance to pick up their wounded. They had not forgotten the brutality that bad befallen the dving Perri-

bone. . . . "Champ says to get hack!" The whisper grapevined through the stymied moh. "It's too much sacrifice. You can't win till you get guns."

THE message had come through Elsa. She had somehow wormed back of the Disps for ber last word. Hopeless for Wayne Champlin as that word was,

she relayed it faitbfully. Champ's people would be bers from now on, "No more sacrifice for Champ!" the

whisper went the rounds, "We're to let him go." In a moment the sadistic ritual was in

full swing. It took an unexpected turn from the start but not a hopeful one. To the chanting of the Higher-ups,

the hollow mockery of a debased pagan worship, the fallen Grubbers were nicked up, one by one, and conveyed to the feeder. Whether they had been shot dead, or whether they were beating their fists on the ground from the agony of their wounds, one by one they slid down the open chute to disappear in the greedy may of the Shrine.

With each victim's turn, the chanters stopped for a moment of silence in mock reverence, and in that moment the hidcous smoky monster could be seen dimly above the flames, reaching with bis

clawlike hands. His growl would sound forth. Then he would disappear; and likewise his victim--forever. At last Wayne Champlin was ushered out of his prison cell. Elsa was close enough to see that his face was

dark and brooding: bis hands and arms were crusted with blood; his clothes were in tatters. But there was still that certain light in his eye-to the hitter end. They led him toward the unholy machine. Elsa tried to hide her face in her

hands: instead she moved in blind response to some instinct she didn't fully understand. Champ was to have been her mate. Wildly she ran after him.

"Champ! Champ! Oh, God, don't let them-"

She did not see Ivan Scorpledge turn toward her and raise his gun; neither did she see the mocking young Summiteer cut through in front of the gun to thrust her back. But when she fought and pounded and clawed at the Disps who blocked ber path, she was dimly aware that it was the surly Summiteer who struck her down. In the white dust of the hillside she lay dazedly, to witness the rest of the tragic sacrifice.

Elsa saw Shorty Ioe following along at the outskirts of the execution party. She was uncertain whether he caught Champ's eye. Champ had no time for

farewells. Once in a final burst of fury Wayne

Champlin threatened to crash the ring of spears. In quick dodging motions he leaped back and forth. He plunged low, but three spears dropped down to hem him in. The ring tightened around him. He was forced into the high-walled

chute. No one could tell when the tense

chanting died out, for the Grubbers roared their protests to the last. The outer end of the long chute began to rise, Chamolin with it. He was not bound, but armed Disos standing on

little elevated platforms on either side of him held him in position with spears as his rise began. Brown arms whirled the great crank.

The polished trough wheeled upward swiftly. Just before Wayne Champlin slid

helplessly into motion he made a vain leap upward. His effort was lost, for he dropped back into the chute-but not altogether lost, for he caught out of the air the corn knife that Shorty Joe hurled to him. A final token of an undving friendship!

Down the incline he flew, holding the knife high. A swift streak of descent was the last that the fascinated throngs saw --- the streak that was Wayne Champlin. Down the open slide he shot to disappear through the circular wall of flame.

CHAPTER V

Elsa's Fatal Choice

THE Grubbers grew silent. They caught a momentary glimpse of the gargantuan demon, but they did not flinch. They were too stunned, helpless, Again the hollow voices of the Higher-ups picked up the mocking chant, The uniformed executioners ran circles around themselves, performing sword and spear rituals that were supposed to be favored by the god after a hearty meal. Abruptly the service ended.

Elsa lay where she had fallen, Torchlights descended to various levels down the hillside. Echoes of skirmishes and harsh commanding voices of the Disps fell meaningless on her cars.

"He's gone . . . He's gone . . . Gone." Her inner cry clung to the words. Her

mind could go not further. Sometime in the night the young

Summiteer who had slapped her down came back to see her lying there. He gazed at her with a lustful eye. He sneered at the thought of Ivan Scorpledge, who would easily have killed her rather than lose her to his superior.

But young Clay Malcinder lived nearer the summit than Ivan Scorpledge; so the latter for all his importance as Captain of the Disciplinarians, had to play second fiddle. Clay Malcinder and his parents were in direct communication with the smoky monster. The young Summitteer's lips curled with evil glee at the thought.

Malcinder picked up the limp girl,

carried her to his mansion, dumped her on the porch. He went to call his parents to take care of her, for there were other important duties awaiting him . . . Elsa came to herself dimly, as if out of a long sleep. She looked into the torchlit faces of the elder Malcindersthe gaunt mystic face of the father and

the bewildered, too-soft countenance of the mother. The elaborate furnishings of the porch told Elsa in an instant that this was a Summitteer's home. She fled. Down the hillside she ran,

as if by some unerring instinct, shaking the dust of the treacherous Higher-uns from her feet. It was all a mere interval of which she was scarcely conscious. She collapsed on her bed in a Grubber's shanty, still crying to herself, "He's gone . . . Gone!"

Nor did she regain a grip on herself with the coming of the day. She breathed, her lins snoke words, she ate the food that friendly people brought to her, but her nerves were only floating dust after an explosion.

"WE can't stop now!" was the war-

cry from Shorty Toe Sanburn. The Gruhbers picked up the slogan. Round and round the island it went. lighting the eyes of the downtrodden people with the same indomitable vision that bad kept them going for bitter years in the past. But there was a new

terror minuled with that vision. "Our days are numbered," said some,

"They mean to make an end of us." "The only thing left is to migrate," said others.

But migration was forbidden; boatmaking was forbidden; and even now the Disps circled the shorelines, lest their enslaved toilers should try to swim away.

A mania of fear gripped the Gruhbers. Every shout or shot, every sight of a flashing sword or a fluttering silk uniform drilled them through with hor-

ror. "I'm going somewhere, I don't know where." Shorty Toe whispered to his fellow workers, "but when I come back I'll have weapons!"

BUT the people had no confidence in Sborty Ioe. He made extravagant statements, claimed that the Purple Fury was thin air, claimed that he had hurled a knife through it.

And when, two days later, he swam back from the mainland bearing no weapons-bearing nothing, in fact, but the outlandish tale that he had seen corpses of Grubbers that the Purple Fury was supposed to have eaten-his people declared that he had gone crazy.

He sought out Elsa to tell his adventure to her. She listened anathetically, He embellished his story with details. He had seen the naked bodies of the nights before. Through a crack in a blackened window he had seen them. lving on a basement floor-and he had

seen their very bullet marks. "On the mainland-miles across the

water from bere?" Elsa asked listlessly. Shorty Joe nodded eagerly. "In a big house near the seaport. There were some men in the room, packing the

corpses into boxes." "You-you saw Champ?"

Joe's eyelids fell. "I-I'm not sure." The lights were so bad, he said, and the shadows so black-and it was all so

dizzy and unhelievable. "Unbelievable," Elsa echoed dazedly,

and turned away. The people were right. Joe Sanhurn had gone crazy. That morning Elsa wandered outside for the first time since the night of the feeding. Though her nerves were

still benumbed, physically she was feeling a little better. From high up on the hillside a spyglass caught sight of her. But Clay Malcinder did not send Ivan Scorp-

ledge and his Disps flying down the food slides to get her. There were other methods, a little slower hut just as sure. Before noon a relayed order got to

the bottom of the hill "The shoemaker's wife," said one of Elsa's Grubber friends innocently. "wants you to be her guest for today." "Is it all right?" Elsa asked du-

hiously. Of course it was all right, the Gruhber assured her, being ignorant of the trickery which the invitation involved. The shoemaker lived on the very next level, and he sometimes did slight favors for the Grubbers. A visit could do

no harm. Elsa went, accordingly; but before she had time to accustom herself to her surroundings, a noisy spear-and-implement maker from the next higher level dropped down to ask the shoemaker's family and their guest up to his place for the noon meal. The shoemaker, himself being ignor-

ant as to where this chain had started or where it would end, vielded to social

pressure and accepted. Soon Elsa found berself being towed up the blinding, gushing social waterfalls like a booked fish. Before she realized that this was an insidious trap. she had risen, step by step, to the level

of the Disps. She recoiled. Terror seized her. She tried to break and run: but this time

running was out of the question. The trap had been too cunningly laid. Disps took her by the arms. Ivan Scorpledge looked on jealously from a distance while the squad of

Disps marched the girl up to the highest level of all. She would be the honored guest of one of the island's proudest families, the Malcinders! THE elder Malcinders fed her and

put her to bed, locking the door after Days passed-days of tender, overcordial imprisonment.

Clay Malcinder's presence soon became as terrorizing as Scorpledge's had been. His manners were smoother, his talk more subtle, but his true nature was far more treacherous. Grad-

ually these facts came home to Elsa. Little by little it dawned upon her that Clay Malcinder and his parents were a world apart. The son was completely devoted to the Purple Fury. His single-track mind led him to constant worship. He spent hours, daily and nightly, at his own chosen listening post swaiting the fearsome whisners

that he thought he heard so clearly. "The Purple Fury will soon answer my prayers," he would say with mock piety.

"I'm sure he will, my son," the father would answer: and the mother would smile, and glance toward the girl to see what impression this "sincere"

appeal had made. Elsa, terrified mouse that she was, did not fail to understand. This family was

urging her to accept their faith so that she would be a suitable mate for Clay. They believed that their son's long hours of communion in his private little sanctum would soon bring results, But all the while. Elsa knew, the

Purple Fury was no more than a gigantic hoay to Clay Malcinder. He and a few of his Summiteer friends too obviously relished all their sanctimonious airs as so much comic byplay, when they were out of hearing of such sincere worshipers as Clay's father. They lived in sham and loved it. Still. Elsa was mystified that Clay

Malcinder would actually spend so much of his time within his prayer cave, Many of his confidential friends likewise went to their private hillside caves for hours of pretended devotion. Once she spoke of following bim, for

a alimpse of his prayer canetum. Mrs. Malcinder was horrified. Prayer chambers were hallowed and private: and even Clay's parents had never intruded upon their son's sacred cave.

This left Elsa more curious than ever. At the first opportunity she ventured to the stone-arched entrance. She found that the narrow passage turned sharply and led to a solid door. The door was locked. She came away more mystified than before . . .

Someone must have seen her! That evening at the dinner table the atmosphere was tense.

"Until today, Elsa," the father began, after the dinner things had been cleared away, "our all-wise god has been patient with you. But this afternoon he has enoken a sharp command"

The words fell like blows from a bammer, Clay Malcinder and his mother

eyed the girl impersonally. "The Purple Fury has decreed that your trifling must cease," the old man

said, his mystic eyes gleaming into the distance "Voy must chaose to LSA waited, afraid to breathe. Clay

Malcinder cocked his head, confident that the trick was already won. "You must choose to follow one path or the other," came the sledgehammer words. "Either the path of Wayne

Champlin or that of my own dear son. The Purple Fury advises that you go at once to my son, become his wife, cling to him, and make his ways your ways." The house was deathly still. Only

the dull roar from the purple flame at the hilltop seeped in upon the stillness. Then Elsa sprang up so suddenly that

her chair clattered to the floor. "Let the Purple Fury tell me that!"

she screamed.

"Silence! You have no cause to be infuriated," said the old man in his cold. unemotional voice, "If you trifle with sacred things, the Purple Fury is bound to grow impatient-and impatience always whets his appetite. Which do you choose?"

"Wayne Champlin, of course!" the girl blurted.

The Malcinders paled. They crowded closer around her. They did not wisb to see ber damned, as Wayne Champlin had been, for uttering blasphemy. She must not choose so hastily. Her life was at stake. Champlin's way was the way of the rebel, the unbeliever.

"The news of this momentous whisper has already gone out to all the islanders," Clay Malcinder explained detachedly. "If you make an unfortunate choice-" be paused for effect-

"they will gather on the hillside this very night,"

The girl saw the game clearly now. Wayne Champlin's path led straight into the fires of the Shrine. While Clay

Malcinder's path-For an anguished, tormented moment Elsa tried to glimpse herself sitting here

at the top of the world, steeped in sham, winking and mocking at the oppression and starvation and cruelty and bearthreak that descended upon the toiling Grubbers.

The Grubbers! Champ's peopleand hers!

"I'll still follow Wayne Champlin," she answered, breathing quiet defiance,

Clay Malcinder rose. His face. though it wore a surly smile, was flushed with inner rage. He bit his words,

"You're stalling just to make a play for me. You're pretending not to he

overwhelmed by your good fortune of winning me so easily-" "Good fortune!" Elsa echoed in a bitter voice. She picked up her chair

and held it to her defensively. She sbrieked with outraged feelings and shrank to the farthest corner of the room, laughing and crying hysterically. "Good fortune! Death is the best

fortune I could hope for, now that you've taken Champ!"

Under the shocked eyes of his par-

corps of guards.

ents, Clay Malcinder stormed out of the house. He was a power unto himself. The Purple Fury was putty in his bands, and he couldn't stand to be defied by any mere human being.

Supreme cynic that he was, he couldn't endure mockery in any form. even if it were only an hysterical laugh.

But his rage would have a ready outlet. Not simply a quick, drab murder, but another spectacular public sacrifice.

adorned with all those cruel splendors that were his food and drink.

Tonight-tonight! And on the impulse Clay Malcinder dispatched a THEN as he stood on his porch, drinking in the wine of pleasurable anticipation, a slightly disturbing note jarred upon his consciousness—a hit of news that made him eager to rush the sacrifice through with all possible haste.

The disturbing note approached in the form of Ivan Scorpledge. "I wish to see your father." Scorp-

"I wish to see ledge growled.

"What about?"
"A rumor."

The elder Malcinder appeared on the porch.

"What is it?"
"Another ghost has shown up."

Scorpledge answered, "The Disps sighted him along the shore cliff. There's no question about it this time. He was one of our late sacrifices."

The old man shook his head and turned away.

"Hallucinations!" he scoffed, "Nothing but crack-brained hallucinations!"

No one could make a sincere worshiper like the elder Malcinder believe any such lies. There was no shaking his faith. He knew that when the sacred monster devoured a victim, not even a ghost of that victim was left. He drew up his shoulders self-righteously and marched hack into the house.

"Don't say I didn't warn you," Scorpledge muttered, turning his eyes toward Clay. "And if you want to

know who it is—"
"Stop!" Clay Malcinder shouted. He
hadn't any intention of letting any damaging rumors reach the ears of Elsa,
who was only a wall away. "Go take
tharge of your Disps. And see that

there's no lagging on this joh."

UP the hillside the Higher-ups came with their torches to attend the hideous ritual.

ritual.

Soon Scorpledge was back at the Mal-

cinder mansion with a squad of Dispa-They stood like sentinels of death against the white evening sky. Scorpledge marched up to the portch. He and Clay Malcinder again glared at each other, like two poisonous snakes. "Haverb't changed your mind?"

"Haven't changed your mind?"

Scorpledge rasped in a surly undertone.

"Does the Fury ever countermand a

whisper?"
Scorpledge sneered, "So you're going

to destroy her instead."

Malcinder's lips curled hatefully.

"I yield to the will of the Purple Fury—with pleasure," he mocked. The Disps snapped bands upon

Elsa's arms and led ber away. In her hand was a highly perfumed handkerchief which Malcinder's ever-loving mother had given her to keep her from fainting.

Looking back, she saw the elder Malcinder still kneeling upon the slab of white stone—his private listening post. Lost in devotions to a god of murder! Blind, gallible soul! All the sham in the world might parade before his eyes

and he would forever deny it!

The squad of Disps broke into a run.
Elsa was forced to keep pace. A dizziness came over her. She stumbled. The
Disps jerked at her arms. She came up.
She breathed the perfumed handkerchief and tried to keen her bead up.

The murderous chant had begun.

Dissipated faces leered. It was not often that a beautiful young girl was led to the feeder,

From far below the congregation of Higher-ups came the usual wailing protests, the usual riotous sounds of the hopeless, ineffectual mob. The chanting Higher-ups could not let their unholy pleasures he disturbed. The cere-

mony proceeded.

The long gleaming feeder swung
down to the squad of Disps. Elsa was
lifted into it. She gasped at her hand-

kerchief as a suffocating man chokes for air.

The tube rose. The chanting stopped. The girl began to slide,

CHAPTER VI

Escape!

TEN days before, they had fed Wayne Champlin to the Purple Furv.

When Champlin shot down through the circle of flames, he underwent all the sensations of entering death-except death itself!

For a long second after that hurning plunge-for it was like cutting across the path of a gigantic blow torch-he could not realize that he was

not dving. He was not caught in the altar, he was not being cremated by a gas blaze, much less was he being gohbled up by a monster. But he was falline! Did the Shrine rest over a bottom-

less pit? Down, down he plummeted! He fell past some lights-something that was like a room. Then-kr-r-r-

ribbo! He was caught hy a deep net. The net couched his fall, sinking as if

suspended by rubber ropes. In the flash of that fall Champlin's burning wonderment took a hundred impossible twists and turns and ended in a huge question mark. What the

devil-The net hegan to lift. One glance up the black shaft through which he had fallen told him volumes. It was not a straight shaft like a well. It was a pit that bellied out like a bell; indeed, the very cone-shaped hill on which the

Shrine sat must be nothing more than a hollow shell of limestone. Now, looking up into the point of this hollow hilltop, Wayne Champlin could see the altar of the Shrine-from underneath. The purple fires reflected down like a dim sun pouring through the vaulted dome of a great building from a hole at the top.

But the sight that shook Champlin from these sudden bewildering discover-

ies was the spacious, lighted shelf built near the top of this colossal limestone dome, Brilliantly lighted, the shelf circled the interior like an overhanging balcony. Standing on that structure were men - Summiteers - some of whom Champlin recognized.

There was no time to look at the shining, formidable instruments and the high-powered machines they were tending, for on the instant Champlin saw that his trail led into the very laws of

death. He saw one of his fellow Grubbers, a wounded woman, heing carted along the shelf's edge on a rolling bed. She was naked and bleeding. She was struggling, moaning with pain-until she

rolled under the flaring light. Then her struggles ceased and her moaning died away. She was wheeled out of sight. What sort of death mill was this, anyhow? Ohyiously it was the ultimate fate for every victim of the Purple

Furv. Champlin's net was elevating rapidly. Three Summitteers waited to take

him-not with their hare hands, but with a huge power-driven cage. The cage swung out, opening into two

steel jaws. It stopped directly above the rising net. Champlin saw that it was a matter of seconds until that cage would close over him, net and all, In his hand was the corn knife that

Shorty Ioe had thrown him. He stahhed at the cords of the net like a thrashing machine. He swung himself out through the gash, still clinging perilously with one hand.

He glanced down. How far might it he through that impenetrable dark?

He released his knife. As it fell he counted. A moment of waiting-then, sploosh!

Deep water! He let go the net; the closing case scraped his arms as he fell.

FROM his count, Wayne Champlin had estimated the drop to be at least a hundred feet. He had once done an eighty-foot dive, and be remembered

it vividly. He turned slowly through the blackness-blackness-blackness! It was

maddening. Splooshi

The unseen surface flew up at him like a floor. He pierced it as squarely as a plummeting bomb. At the risk of breaking his back, he cut his swift course upward: and luckily so, for he scraped rocks that projected from the bottom.

Lights were on him as he bobbed up. He caught half a breath, went down, sped far to one side. Three thuds like plunging bullets pounded

against bis ears. Cautiously he came up behind a protecting barrier. The lights that swent back and forth couldn't catch him here.

For the moment he was safe, He breathed hard. For the first time. he was aware of the painful burning over the skin of his legs. He hadn't been suspended under the altar blazes to

emerge unscathed. The slick moist ceiling of this gigantic cavern now became dimly visible. the lights reflecting along its bumpy water-eaten surfaces, Wayne Champlin had the feeling of being imprisoned within the shell of a starfish of mountainous proportions. Numerous caverns branched off from the colossal bellshaped room. The low roar be heard was more than the echo of purple fire above. It was thousands of little waves

resounding through thousands of caves

-a bit of the ocean imprisoned. A dark object was lowered down from aloft. Champlin's breathing spell was over. The object was an inflated ruhher boat occupied by two Summiteers. In a moment they were on the surface, un-

hitching.

Champlin waited to see which direction they would take. One of them worked the flasblight, and held a gun ready-one of Champlin's new pistols. The other paddled. They came toward

him. He slipped under silently. He could not be seen swimming under these black waters. But he was still more at sea than ever as to their motives. Murder. certainly. Sadistic, cruel, heartless murder had been back of all their ritualistic fol-de-rol. But what of all those

gleaming machines that lined that balcony? His burning curiosity, together with his need for a fresh breath, brought Champlin to the surface. It was a mistake. From across the water the flashlight swept over him. A shot thundered through the caverns. A bullet ripped into the ceiling some-

where beyond him, and a row of little stalactites splashed into the water. Champlin swam for dear life. He swam deep-but not toward one of the protecting rocks as his pursuers suspected; nor yet for one of the endless branch caverns. There was another little matter on bis mind that must be cared for before he struck out: for any

branch cavern he chose might turn out to be a dead-end. He swam squarely for the center of the big chamber, and when he was directly beneath the Shrine he fought for

depth. He crawled down through the wilderness of slimy ragged rocks. His lungs were almost bursting, but he kept groping, he held on: and at the last possible moment of his endurance, luck was with

suers.

too!"

Up to the surface like a cork, he caught his breath, hobbed under and was away before the spotlight and bullets bore down upon his wake. HE jammed the knife through his belt. For the next ten minutes

him. He found the knife he had pur-

posely dropped to test the depth.

he sped deep into one of the branch caverns. Each time he came up for air, he saw that the surface of the water and the ceiling were drawing closer together. He was evidently headed for a dead-end; but that did not worry him now, for he had at last shaken his pur-

Strange, Wayne Champlin thought, as he dragged himself up on a shelf above the water's surface, into those deceptive formations nature will mold its stalactites and stalagmites. Dim though the light was, gleaming along the slick ceilings from distant points. he could see a stalagmite a few feet in

front of him whose size and shape was that of a man-a bushy-hearded man. Perhaps it was too thin for a perfect resemblance: its bones were too prominent. It was more like a skeleton, except for its eyes: which, for all the darkness, struck Champlin's imagination as being a perfect representation of luster-

less human orbs The eyes winked, the skeleton

breathed, it spoke. "You beat them out of your hide

The voice was weak and cracked like the crowing of a sick rooster. The skeleton came closer.

CHAPTER VII

Douzel's Last Stand

"JAKE DOUZEL!" Champlin exclaimed. "What are you doing here?"

"Watching you put it over those nasty

devils," the skeleton replied. Then with a crackle of surprise, "How'd you know who I am?" "I saw you the morning you killed the two Disps. A fine job, Douzel."

"You think I'm a ghost, don't you? Of course you do! Everybody does. I can't come near anyone. They run from me."

"You're not a ghost," said Champlin.

"Far from it." "I don't know whether I am or not.

I don't know anything any more, I'd forgot my name till you called it just now, I'm all knocked to hell. But I beat them out of my hide!" In the dim light Champlin could see

the gleam of fiery pride in the sallow face. But for that gleam, this grotesque figure might have been a dead, dehydrated human, echoing the cackling voice of a machine. "I beat them out of my hide, same

as you did." Eagerly Jake Douzel told his story. When he fell, something had gone wrong with the net, and be had spilled over the side for a long drop. "I didn't get away with no handsome dive, like you did, Champ. Had a high

tide with me too, but all the same I crushed my leg to pieces." "Lucky to get off with that."

"Hell, yes. There ain't been another

to cheat them till you done it." "Do you live in here somewhere?" Champlin asked, as the crippled skeleton led the way along the dark rocky path.

"Back and forth," said Douzel. His talk became incoherent.

talked of his private fire, that the Summiteers never saw. He mentioned stealing food at night from the vulcatcher caches. He talked of starving. of eating fish and eels, of getting lost in the endless caves, of never being able to

remember the way out. "Then there is a way to swim out of here?" Champlin asked eagerly.

"Sometimes there is and sometimes there ain't. It depends. If I'm trying to find a way out, there ain't,"

"But that time you bappened out on the surface to kill those two Disps-"

"That's the only time I ever found it when I wanted it," Douzel muttered. On that occasion he had heard the Summiteers talk over their plans, and he knew that Disps were being sent down

to get Perrihone for vulcatching. Champlin was on fire with interest

now. "Then you can get close enough to

vonder balcony to hear them talking? You know what all those machines are about? You're onto their game?" "Don't know nothing," Douzel

used to know. But you can get close, all right. Close enough for them to spit in your eye."

He paused to gaze at Champlin's corn knife

"I wish to God we could get clean to them. We'd cut them in strips."

Deep within a tunnel above the water level they came upon a tiny purple fire, Douzel's underground refuge. The fire had been burning ever since he had first lighted it; for upon discovering this hideaway he had smelled the strange odor of escaping gas,* and had had the good sense to make use of its illumina-

tion Innumerable skeletons of fish were heaped in a corner. Fish were the principal diet in this hermit camp, though there were also small supplies

* Natural was is known to escape from the earth in caves, and in certain locales of the earth in exactly this manner, and can be lit. The Purple Fury is thus only a natural gas well which flows continually, and was ignited by the priests and used as a means of gaining their power through superstition and fear. This is not an unknown phenomenou, and indeed, is quite common in our own Southwest. Yellowstone Park has many such gas fumaroles -Ed.

of grain and moldly bread. The thought of food was an inspiration to Champlin. A few minutes of

hand fishing among the crags vielded results. With a hearty meal of fresh fried fish, the two refugees felt more like men, less like ghosts.

Among Douzel's supplies was some grease, which Champlin applied as salve to his burns and spear wounds. Then he slept for hours on end.

WO lines of action were prodding at Wayne Champlin's mind as he awakened. First he must find the way to swim out of here. Secondly, he must get a line on what this ritual-encrusted

death mill was all about. Take Douzel led the way. Dragging cracked. "Don't remember nothing I his crippled leg with remarkable energy. he bounded along a tortuous dark ascent. Champlin felt like a blind man

feeling his way through a lost world. The centuries of waves and mists and ooging moisture had eaten away countless nooks and alcoves in the limestone. and here and there were stalactites for band holds.

"Here," the crippled ghost whispered tensely. "This is the top,"

The nook was a scanty fifty feet from the balcony at the top. Champlin could see that the trail ended here. Further ascent toward the Summiteers' stronghold would be as impossible as climbing the inside of a cathedral dome whose walls were greased. But at any rate, the show could be seen from here: and even the acoustics were passable, so long as the caverns were not roaring too loudly

with waves. The voice of one of the Summiteers carried down to them with startling

clarity. "Malcinder!" the Summiteer called. "He'll be bere at once," another Summiteer answered. "Are the new Disos

ready? Bring them in,"

A string of seven or eight spruced-up young Disps filed into the halcony. The artificial lights shone through their silk purple and gold shirts. In a moment Clay Malcinder strode around

from the other side, faced them stemly. At the slight of Maichinder, Champlin's flats tightened. Well remembered with glave the glew this which Chay Malchorder had be give with which Chay Malchorder had witnessed the shorifice of his parents. Many were the insults that Work Champlin had endured as a boy from this arrogant, cruel Summittee and Champlin's first had a chance at that proud face, for Summittee children were always too well protected. Then were never to be causely out in the

open,
"What's happening here?" Champlin whispered to the bushy-bearded
skeleton beside him, "Initiation?"

"If you figure it out, tell me," Douzel returned. "They don't talk sense up

there."

Champlin watched breathlessly.

These young Disps were to be treated to the innermost secrets of the Sum-

miteers.

"Your good work against the rebellious Grubbers," Malcinder spoke crisply, and there was no mockery in his voice now, "proves that you have a healthy taste for blood. You have earned the right to be introduced into

the mysteries that underlie this Strine. "Many of the Higher-ups — even some of the Summittees: themselves," Makinder continued, "don't have, the stomach for these facts I'm going to tell you. My own parents, I'm askamed to say, have closed their eyes to the whole business. They prief simply to believe in the monster god of their childhood, But there is more. It has taken more than the strine of the strine of the strine of the strine of the world's most dependable buman book marks."

HE paused, searched the faces of each of the Disps. Their eager appetites for the bloody business initiated by their superiors reassured him. "Some illy-livers would consider this

enterprise cold-blooded; but I don't see any weak sisters among you. The selling of human bodies is simply a business, and no Summitteer or Disp mixes sentiment with his business. After all, hepe's nothing sentimental about the

body of a Grubber.

The Disps laughed lightly, and their response pleased Clay Malcinder. He explained then that this selling of human bodies bad been the business of the Summitteers for generations. The wealth they and the Disps rolled in came not from the Grubbers' toll but from the

Grubbers' corpses.

"Our chief market is AHDA — the
Asiatic Human Dissection Association.
AHDA can order bodies of any age or

sex. We can supply them within days.
"You are already familiar with the
method by which these bodies are secured: the sacred — ahem!—ritual of
sacrifice. But as to the means of preparing our products for shipment—let

us demonstrate."

One of the assisting Summitteers drew back a curtain to reveal a number of naked forms lying on a bench—the barvest from the recent Grubber encounter.

The shipping port, Malcinder revealed, was on the mainland some five miles distant. Quick transportation to that point was afforded by a natural water-filled tunnel which had been equipped with power-drawn cables.

"Here is the car," said one of the Summiteers, indicating a long watertight, coffin-shaped box that clung to the cable. He opened it. It was large e enough for two or three bodies. It could be opened, moreover, from the inside. Thus it was usable by the Summiteers for their own transportation to the mainland station. Apparently they did not mind riding as passengers in a compartment which corpses would occupy on the next trip.

"I'll go over now," said the Summiteer, crawling into the car. "Send the bodies after me. I'll unload them and box them up for shipment." The Summiteer closed himself in. In the days to come, Wayne Champlin was to see this process frequently repeated by Sum-

miteers who chanced to have duties on

the mainland.

Malcinder touched a silvery lever, the
car accelerated down the inclined cable
track. It melted off into the blackness
and splashed into the water level like a

and splashed into the water level like a torpedo. Automatically it gained speed. In three minutes it was across.

The Disps stayed to see the empty car return. They were told to load it with holdes. It was then that one of the

Disps, who had been engrossed in the array of scientific paraphernalia, asked the vital question.

"Are these bodies dead?"
As he blurted the words a body

slipped from his arms; something in the

Clay Malcinder answered. "We've learned many things about

preserving hodies for dissection here in this laboratory—baving had an abundance of 'raw material'," he said. He glanced at the row of vari-colored

glowing lamps, the shelves of serums, the urns of powders, the operating tables. It was here, obviously, that the hodies were prepared for preservation. "Our most important discovery is

that AHDA pays us splendidly if the bodies are still alive—or, I might say, nearly so."

WAYNE CHAMPLIN caught his breath. But none of the young Disps, he noted, recoiled in the slightest. Their sadistic faces beamed eagerly.

"We've invented a sleeping death," said Malcinder proudly. "Our secret treatment makes the body as easily handled as if it were dead; though for the purposes of dissection it remains allve for years — or until it is dissected

away."*

At this Champlin thought he caught
just a shade of discomfort in the atti-

just a shade of discomfort in the attitude of one of the Disps, who asked, "In this sleeping death, do they still

hear, and know, and feel?"

Clay Malcinder smiled evilly. "And

if they do, what's the difference? They're only Grubbers."

He closed the car, snapped the silvery lever, and the three bodies shot

away on their unknown adventure. Malcinder turned his attention to the invoice of the "raw material" on hand. "Where's Champlin?" he barked

peremptorily.

A Summiteer jerked a thumb toward

the railing.

"Down there somewhere. He slipped through the net. But one of the boys plugged him with a bullet."

"Get the body up here!"

"That is, they think they plugged him. He went down and they couldn't

find him-"
The air turned blue as Malcinder

* The Summitteers, by means of their special laboratory apparatus within the Shrine's dome, had found a method of permanent suspended animation. Doubtless this method was a scientific improvement on early 20th century embalming practices. The Russians are the best known practitioners of this art today, the embelieved remains of Nikolei Lonin baying him in state in Moscow since the death of the Russian revolutionary leader in 1924. Use of human bodies for surgical dissection-dead hodies, of coursegoes back for bundreds of years. But viviscotion-the cutting up of living bodies-has always been confined to animals such as rabbits and dogs, and it is a practice long bitterly fought by bumane societies. Ruthless surgeons, however, would doubtless feel no cushus in cutting up living animals.-Ed.

strode around the balcony blowing off steam. He fired the young Disps off with orders to Ivan Scorpledge to send some veterans in for a search for the

some veterans in for a search for the lost body. "It's more than just losing a body,"

he growled, when only his confidential Summiteers, so he thought, were within hearing. The caverns echoed his growl. "I hear you're praying," one of his

companions chuckled, "for Champlin's girl to come your way."

"Praying for her! I'm waiting for her. She's been hiding out since that man of hers went down the chute. What's more, I've had to tell that damned Scorpledge just where he stands a couple times. But of all things. I don't

want a ghost of Champlin bobbing up!"
Champlin thumped at Douzel's arm
and whispered a sharp command. It
was time to find the way out of here.

"I don't know if I can find it--"
Douzel began.

"You've got to! No time to lose!" They scrambled down the perilous

black trail as hard as they could go. But Champlin had underestimated the speed of the Disps. As he and Douzel swam toward the central cavern, they found the waters alive with rubber boats.

A light flashed out of a nearhy alcove. The two swimmers ducked under, and Champlin cut for the farther side. But Jake Douzel's luck for once was against him. He came up not four feet in front of a boat.

Champlin looked back in time to see it happen. A Disp dashed down with his sword and split the grizzled old skull wide open.

> CHAPTER VIII Hours of Wrath

WAYNE CHAMPLIN'S last glimpse of Jake Douzel would haunt him for days. Hours later, when

ff he huddled safely in a lost cavern after the most furious underwater swimming d of his life, Champlin couldn't help harking back to that bushy-bearded skeleton's violent death.

For three years Douzel had cheated the Summiteers out of his body. Now in one hasty act of friendship for Champlin, he had run squarely into

death.

And—the irony of it!—they hadn't considered his body worth saving! Mis-

erable heap of skin and hones that it was, they had dashed the brains out and let it sink to the bottom like a rock. Champlin took a deep hreath. Where among these thousands of caves should

he begin his search for Douzel's channel to the outside world? How could he get out, now that Douzel was gone? He plunged into the water. His senses were never more alert. This very hour, he would start constructing a

mental map of these caverns until he found the place he was looking for. Hours later he returned to Douzel's

cave, exhausted. A map of these caves would be as complicated as the orhits of the planets. His hurning question loomed up like a terrifying phantom.

During the next nine days and nights, that phantom grew until it nearly blotted out Wayne Champlin's whole horizon. The map in his mind became blurry. All caves came to look and feel alike. All of them were black and

full of obstructions; all were interwoven with others; all were flooded with water. He camped at Douzel's fire, fed on fish and the remains of the stolen grain, tried to rest between periods of search-

ing.

But his sleep was filled with murderous faces of Scorpledges and the hungry
pain-stricken faces of Grubbers. Or he
would have visions of Malcinder—those

55

Then came the day at Douzel's listening post that struck the ultimate horror through Champlin. He learned that Elsa was to be forced into a marriage with Clay Malcinder. If she refused.

she would be fed to the Fury that night! The Summiteers talked the matter over with a glow of eagerness. Plainly they hoped that the girl would refuse to go through with the marriage. Not that they had ill wishes toward Malcinder. But they knew that he would not hesitate to go through with his proposition. And it was not often that the hideous laboratory received such a prize as this

girl. The Summiteers checked over their instruments and went out. WAYNE CHAMPLIN was near to fighting the walls with his bare fists. when something in the back of his mind went ahlaze. It was only the wildest of

chances, hut-The balcony was empty when he first started throwing the stones. Stones crashed into urns of powders, stones knocked out a glowing lamp, stones shattered a shelf of serums. Then a stone struck its mark squarely-the silvery lever! In that instant things be-

gan to happen. A motor whirred. The cables went into action. The watertight, coffinshaped car rode down the inclined track.

gathering speed.

Champlin swam - almost flew across to the point where the cable line disappeared into the water-filled tunnel. By this time it was moving fast. He wanted it to move fast. He sprang, froze onto the cable for dear life, rode with it.

FASTER and faster! The water pounded against his head. Three minutes it would take to get across.

For unquestionably he would be underwater all the way. If he could hold on -if the bombarding water didn't crush his skull-

The cable rollers along the ceiling

snapped past his hands like a picket fence. Now they slowed up. What was the matter? The cable was retarding! It

stopped! Had the car reached its destination . already? Champlin's chest was bleed-

ing for air. Hand over hand he drew himself along until he came to the car. But car, cable and Champlin were all still somewhere in the middle of the water-filled tunnel-somewhere heneath the surface of the sea, stalled! Someone had cut off the bower!

This was the perfect death trap, Champlin was doubtless more than a mile from air. Even on a fresh breath. that would be an impossible underwater swim. He pictured the hilarity of the Summiteers. They must have guessed what had hannened. They had him

where they wanted him now-and for lack of a lungful of air, he would perish. His heart pounded. His head swam. The pressure was terrific. It would be

mad to strike out swimming, futile-He drew himself close to the coffinshaped car. There was air in that box

if he could get to it. Perhaps-Champlin groped upward through the watery blackness. A natural cun in the rock ceiling above the box gave him a fighting chance. He pounded at the levers and in a split second he had the car open. Air swent out of it toward the

cupped rock ceiling. Under the pressure of the water, the pocket of air was not large; but it was a diving bell on a small scale, and it was good for a few hreaths. Champlin's burning head plunged into it. His lungs drank in deeply. Eleven breaths twelve breaths thirteen-

Without warning the cable began to

move-back! Champlin caught a final half breath

and grabbed on. Back to the big cavern he sned. Once more he had cheated the fates by a narrow margin. As the cable rose from the water, he let go and breathed with a wonderful relief.

But his relief vanished on the spot, A light caught him. Before him was a rubber boat occupied by three Disps. Guns came up. Champlin went undervery shallow alcove in a straight high

water like a streak. What had always appeared to be a

wall was his only chance for shelter at the moment. He came up within its blackness. The boat hove in sight and he ducked under-and back-deeper into the wall! In his groping Champlin had discovered a new opening. Three interlocking vertical ridges spread at the low tide level like tree roots. Whatever the risk of being trapped Champlin plunged through.

In another moment he was yards ahead of his pursuers, swimming at full speed through a narrow, high-walled passage-that led toward a faint light!

The water grew shallow. He ran and leaped; he crept through dark corners and bounded through spacious rooms-

always toward more light! Were the Disps still on his trail? They wouldn't get far with their boat

through this narrow passage. But they were not far behind. Champlin was almost through. Fifty yards ahead of him was the dazzling white light of day. He dared not show

himself against it. He slipped along cautiously. SUDDENLY a voice cried out not twenty feet ahead, "Ghost!"

"The ghost of Champlin!" another

voice shouted, and two Grubbers bounded up, dropped their fishing baskets. and tore through the last few yards of the cavern at a furious rate,

As they disappeared into the outside world, a bullet crashed through the cave and the report roared ominously.

Champlin crept upward to a perilous shelf in the wall, waited. The voices and footsteps were almost under him. To his surprise, the Disps seemed to have suddenly lost interest in the chase. They stopped to talk, and their conversation

indicated that they had seen one of the Grubbers and taken him for Champlin. "It'll be hell to pay," one of them said, "if the girl finds out he's not dead,

Tonight's her deadline."

"She's already given her decision." another spoke up. "She said 'no' so flatly that Malcinder's in a rage. He's already sent out the word. He's feeding her to the Fury tonight. That's why we've got to get back and report," "Yes, and that's why that damned

Champlin has no business being loose. If Malcinder knew, he'd throw his sacred whispers to the winds. He'd give his right arm to kill Champlin outright." "Any of us would."

"Listen, men," said the third member of the party, who hadn't spoken up to now. "We're not through yet, 'The Discs guarding the shores may have picked him up by now. But if he sees them first, he'll be right back in here. We'd better push on to daylight,"

"Suits me I'd follow him half across the ocean."

"Keep your light flashing." Two Disps passed beneath Champlin,

wading shoulder to shoulder in the shallow water. One of them held a gun, the other a light. The third man also with a gun, straggled after them, It was ugly business, but necessary:

Champlin made as quick work of it as

possible. He pounced down on the third man, froze onto his gun hand and wrenched the weapon free. The foremost gunman whitled and threw a wild shot against the wall as two bullets from Champlin ripped into his chest. He collapsed, dropping his gun.

The Disp with the light leaped toward the fallen weapon; but his arm flew out helplessly and he fell face down in the water, as Champlin shot him between the eyes.

The gunman upon whom Champlin had fallen at the outset was swiftly dispatched. Of the searching party, the only remaining life was that contained in the flashlight, itself slowly dying to

nothing.

Wayne Champlin took one longing look at the out-of-doors only a few yards beyond. His body craved the food and air that were somewhere out there; but his will pointed him back in the opposite direction.

He carried two of the dead Disps back to the rubber boat they had deserted. Evening was falling fast when he came back for the third time and went to work upon the third fallen man. He worked fast. He took the Disp's uniform off and dressed himself in it. It was no easy matter to get the rub-

It was no easy matter to get the rubber hoat and his two uniformed corpses back through the narrow passage. He was working against time now.

At last Champlin rowed back into the dimly reflected light at the outskirts of the central cavern. He propped the two dead Disps into as natural positions as possible, tying them in place with narrow strips torn from their uniforms. One held the flashlight; the other, a gun. Champlin becan to paddle.

NO sooner had he moved into the ring of light from the Purple Fury, than men from the halcony aloft caucht sight of the party. Someone shouted orders.
"Hurry up! Malcinder's feeding the Fury at once! What the ball's been

Fury at once! What the hell's been keeping you? Scorpledge called assembly half an hour ago."

The ropes came down and Champlin

hooked them to the boat. It began to lift. "What's the report down there? Did

"What's the report down there? Did you ever get close to Champlin?" "He got away!" Wayne Champlin

shouted back, harely looking up from under his feathered Disp's cap. "Hell, we knew that. The Grubbers have gone wild from seeing his ghost.

Malcinder's hurrying this sacrifice through like a tornado. As quick as it's over, we're going out in full force to scour the island and kill on sight." The Disp who had barked these or-

The Disp who had barked these orders now threw a rope to the rising boat, so that the returning searchers, as he thought, could draw themselves over to the balcony rail to disembark. With a sharp command for them to make all possible speed, he strode off.

Champlin watched him go with a feeling that was far stronger than relief.
Now there were only six men on the balcony—the official six who manipulated
the details of the hideous sacrifice. They
were absorbed in their machines, paying
no attention to the returning boat.
The two dead Dispas lumped languid.

ly against the rail, weltering in their own blood that filled the bottom of the boat. They had served their purpose and Champlin had no further need of them. His deception had gone the limit. The rest was up to him—and his guns. And hit corn knile!

For his amazed eyes beheld his familiar weapon leaning against the balcony wall. With it were other effects from Douzel's fireside. Sometime during Champlin's recent absence the Dispa had discovered the Douzel camp.

Fight to the Death

"ALL set?" a Summiteer called out with startling pointedness.

"All set!" one of the others answered. "Is the monster ready?"

"Ready!" came another voice. "What's on your periscope?"

"They're chanting," said the periscope man. He was enclosed in a booth. hut his voice-all the voices, so it seemed - clattered back and forth through speaking tubes. Most of the talking was done by the man at the periscope, whose instrument evidently extended up into the wall of the Shrine to

give him a view of the hillside. "They're leading her to the feeder, On your toes now, men-"

"Put your hands up!" Wayne Champlin's voice thundered through the rocky dome.

His words scarcely registered. Summiteers weren't aware of threats. These men were too intent on their machines-

"She's at the feeder . . . She almost fainted . . . They're putting her in-" "Get your hands up or Fil shoot you

dead!" Two heads bohbed up, then a third and a fourth. Still it was a moment hefore the situation drove home to them. "What the hell? You Disps were or-

dered-" "I'm no Disp! Listen to me or I'll blow you to bits!"

"Champlin!" No growl of the Purple Fury ever sounded a more spine-chilling note than this Summiteer's shocked

cry. His hands flew up. But the man next to him reached sharply for his gun-a reach that cost him his life. A hullet jumped through his eye. He plunged like a blind bull. rolled through the railing at the edge of the balcony. His scream fell with him and was swallowed up in a deepthroated splash a hundred feet below.

Four Summiteers lined up before Champlin, pale with shock. The fifth and final man stayed with the periscope by command. He was to keep his back turned, keep calling out the events from overhead. The instant he turned around he'd be shot.

"Now! No false moves. You on the end there, put on your automatic cage controls."

His eyes glanced angrily at the human grappling book-two jaws of steel which picked human hodies from the net and then snapped shut to imprison their victims in a small cage for as long as the Summiteers desired.

The Summiteer, chalky pale, shook his head defiantly. There was no time to waste. Champlin shot him through the heart. He fell underfoot and Champlin kicked him out of the way. The remaining men, seeing the jig was up, were as docile and willing as slaves. They were frightened and performed

badly, but they performed. At Champlin's orders, the hig steel iaws of the cage swung around toward the wall. It rammed toward a vertical copper gas nipe that crawled up the wall like an immense stove pipe. In a glance Champlin had seen that the power for the balcony's appliances was stored elec-

tricity, not gas. But this copper pine was the gas conduit to the purple flames -flames that awaited Elsa's fall. "The feeder is lifting," came the voice of the periscope man. "The chant has

stopped . . . Any moment now-" At that instant the powered steel arm

struck. It crashed and clanked against the copper conduit. The pipe was broken through. The thick lower stalk bent aside and poured out bluish fumes like some gigantic exhaust pipe. The live gas streamed forth as if from a fireman's hose.

"She's about to slide-she's sliding-" Pwofff! The hated roar of the purple blaze from overhead suddenly snuffed

out. "Blackness!" the periscope man cried. "Something happened! The Shrine! The Shrine is dead!"

HAMPLIN had ceased to hear. His CHAMPLIA made waiting net. At that instant the figure of Elsa fell past his gaze. The net caught her and eased

her safely down into the darkness. "Keep reporting!" Champlin shouted at the periscope man, who stammeringly obeyed. The Disp was seeing things that stunned him and tied his tongue in knots. At first, when the blaze had choked off, he had seen only torches jerking up stiffly, all over the hillside. The entire assembly was frozen. It seemed too dazed to move-except for some of the Disns and Summiteers. They quickly broke out of their paraly-

sis and raced for their prayer cayes. "You mean they're coming in here?" Champlin demanded.

For the first time the Summiteer at the periscope dared to turn around. "Like a flood!" he answered

Champlin didn't see the periscope man come out of his booth, for he was busy putting the finishing touches to the other three Summiteers. By swift manipulations he succeeded in locking them in the big cage.

Then he whirled to see the remaining Summiteer lunge toward him like a mad beast. Off guard with his gun, he crouched low. The plunging form spilled over him. They rolled into a savage dogfight. Bluish gas puffed over

Footsteps clattered along the balcony floor. Summiteers and uniformed swordsmen were flooding in. The clatter turned into a thundering roar.

them like heat waves.

The shouting voices, if they echoed out to the hillside throngs, bore no resemblance to prayers to the Purple Furv. They were cursings and growlings of consternation that might have been calculated to disillusion the most faithful of worshipers.

"What the hell happened to the Fury?" Ivan Scorpledge's enraged voice boomed out of one of the private prayer

caves. "Out of my way, dammit! What the devil-" The uproar sounding out of the

blackened hilltop was too much for the ruling classes. Shocked out of their superstitious reverence, they advanced on the hot, smoky Shrine leaving their torches behind. They crowded close. peered down for sacred glimpses of the mysterious inner world. A terrific upsurge of live gas assailed their postrils. A few of them glimpsed the rapidly

filling halcony; some saw two dead Disns sprawling from the side of an inflated rubber hoat; some saw a strangelooking steel cage with Summiteers tearing at the bars. From the most revealing angle they caught sight of the muscular figure of Wayne Champlin, fight-

ing like mad.

The Summiteer who had grappled with him went down under a blow from the hutt of his pistol. Champlin bounded up, pushed his long hair out of his eves. His Disn's uniform was in shreds. The escaping gas poured out at him. Already the wild cry of "No fire! Hold your guns!" was cried through the

dome. Champlin choked for breath. He sprang back to the controls of the electric-powered cage, swung it around in a wide circular sween, crushed the first two Disps who advanced on him with unraised swords. From the other side of the balcony they rushed. The

care swung back to cut them off. But one of them plunged through, Champlin hurled his pistol and missed. His hand snatched up the corn knife. Small chance it would have against the broadswords of the Disps! "Let me have him! He's my dish!"

The loud hellow came from Captain Scorpledge of the Disps, halfway across the balcony.

THE swordsman who hovered within reach of Champlin was momentar-

ily disconcerted by the commanding voice of his superior. In that solit secand Champlin struck. His corn knife gashed halfway through the Disp's throat. The victim fell in a shower of blood. He spilled against the railing,

and his sword flew from his hand. "Look out for the girl!" The warning came from Clay Malcinder, and no one within hearing misinterpreted his cry. He was going to see her sacrifice

through, one way or another. "Get her up from there!" Malcinder roared. No one was close enough to the controls which regulated the net. For the moment the command was unheeded.

Scorpledge's roar took precedence. "I'll take him! I'll take him!" The crowded balcony made way.

Puffing and barking at the gas, murder hlazing from his eyes, the burly captain of the Disps stormed toward the sweating, tattered young Champlin,

"When he gets you." the taunting voice of Clay Malcinder called from across the balcony, "you'll think you're

in hell!"

It was an easy threat to make, Everyone knew that Scorpledge and his sword were invincible. The gas thickened in every rocky alcove and pocket and crevice in the upper half of the cavern. Onlookers began to crowd out through the prayer tunnels for air. And why not? Scorpledge had things under control.

But what might happen when sword and corn knife clashed? Would that accumulated gas respond to sparks?

A clang of steel put that uneasiness to rest. Scorpledge bore down on Chamolin with his long flashing weapon. Three lightning strokes shot out. Champlin caught them on his blunt blade. He slipped in a fast one-low hut fast. Scorpledge smeared a hand against his hip. The hand came up

"You damned upstart!" he roared. "I took your parents and let you go free. I should bave known hetter than to let a rebel live!"

His sword clipped Champlin's knuckles. Champlin backed away gradually, staying close to the rail.

Scorpledge grinned evilly. He reveled in his advantage.

"Damn you. I'm glad I let you live! I'm going to enjoy stabbing your eyes out and chopping your lips into your

mouth and-" An unexpected cough cut the hig man's speech short. He started to back away from the stream of gas. Wayne Champlin, holding his own breath, had

led him into it deliberately. That was Champlin's moment, and he threw himself into it with every ounce of his power. The corn knife dashed deep into Scorpledge's ribs. Click!

Champlin jerked back-but not with a whole knife. In his hand was the handle and a poor stump of a blade

The hulking captain fell, bellowing with pain. His sword slipped from his hands. He clutched at the chunk of blade stuck fast in his ribs. On the instant another Disp rushed

in with sword upraised. The sword descended - through gas-filled space. Champlin, with the nimbleness and daring of a trapped squirrel, threw himself

over the halcony railing. Summiteers, Disps and numerous other Higher-ups whose curiosity had swent them into these sacred precincts. saw that sensational jump. They saw Champlin's fingers extend, slip past the side of the net—missing by inches! then catching hold, as it seemed, by the last threads!

The net, already low with the weight of Elsa, sprang lower from its elastic suspension, bounced upward again, dipped down. At the second dip, Champlin succeeded in ripping the mooring cords with the stub of a knife to which he had chue.

Forty feet or more down to the water they dropped, Champlin and Elsa, striking the surface of blackness with a resounding splash.

CHAPTER X

Dreams Come True

"THIS way!" Wayne Champlin breathed as they came bounding

"Coming!" A bint of a quick eager smile towheel the girl's face. Death racing after her—and a smile! What a girl! Spotlights were on them from overhead. Above the uproar of shouting. Clay Malcinder's voice piped crisp orfers. Already a boat was being lowered. Malcinder and two others were aboard it. Once they got down to the water level, there should be no danger from the gas. Malcinder fingered his gun. The

"Under!" Champlin gasped. The girl seized his foot and, linked together, they sped through the blackness beneath the surface. Up again, Champlin turned for a last possible glance at the balcony before rounding a barrier.

boat slipped down swiftly.

Straight back of them Malcinder's boat was being unhitched for action. But it was the sight one hundred feet higher up that froze Champlin's attention. On the edge of the balcony lay I van Scorpledge, apparently forgotten—but not dead! The blazing lights revealed his arm in motion, his hand taking aim with a gleaming pistol. In the last minute of his vicious life,

In the last minute of his vicious life, Scorpledge intended to beat Clay Malcinder to the prize!

"Under!" Champlin's order was swallowed up

At if a burning meteor had plummeted that if a burning meteor had plummeted burning the Shrine the search and the search with a string burning the string burning the serial burning born ommun. buloom that that that that crack certact Splath! The angry splashing opened up into a ripping, pounding roar that was like a tidal wave

from the depths of an inferno.

Nobody heard Scorpledge's gunfire that touched the gas off. Nobody knew whether his bullet struck its mark or missed. Much less did anyone know what hansened to Wayne Champlin and

the girl, for they had swum out of sight.
All that anyone knew in that moment
was that death had struck. There was
no time to know more. Thoughts and
lives and purposes were incinerated with
hellish fire and crushed under a hail of
stones. Down went the blacony, the
machines, the dead Shrine. Down went
the hillton and all the recople in it and

machines, the dead Shrine. Down went the hilltop and all the people in it and on it. Down into the deadly inferno of falling earth and scorching flame! Haliway down the hillside the Grubbers watched, aghast. They fled from the terrific heat, back toward their own

level. Scores of Higher-ups who had not been close enough to be caught joined them in the flight to safety. Then they stopped and watched, and the dim glow of scattered purple blazes

lighted their horror-stricken countenances.

The explosion was over. The fires

The explosion was over. The fires burned quietly. The terrified voices had stilled. The roar of waves and winds from within the earth diminished. Now most of the sounds came from the island's shoreline where, under a

the island's shoreline where, under a bright moon, the rush of water was to be seen flooding out of little caverns.

Before the diazzled eyes of the Grubbers, two monlighted figures clambered up out of the slushing waters. They were half drowned, they were hattered and bruised and half nakel; but they were not ghosts. They had battled the floods and fought their way through Jake Douzel's narrow passage to freedom.

"Champ and the girl!"

Wayne Champlin and Elsa had escaped alive and whole.

THE glad tidings spread over the

Lisland like a battle-cry of victory. Champlin and Elsa were conducted to one of the Grubbers' shantles, where they lay down in utter exhaustion. Not until dawn did they rouse themselves to join the Grubbers in examining the ruins

of the hilltop.

The welrd night had passed, and with it the horrors of death, the fears and terrors of a downtrodden people. The

Purple Fury had been exploded from a living monster to a dead mythl "The hillton!" Elsa gasped, her even

"The hilltop!" Elsa gasped, her eyes incredulous. "What — where is it? What's happened?"

Against the white sky she and Champline is as the new outline. The pointed cone was gone; instead there was a wide craterlike pit of stones. From within the irregular hroken lips of the vast cave-in, soft purple flames glowed, and thin lines of smoke rose idly. They toined the Grubbers further up

the hillside. Most of the Summiteers' mansions were in ruin; the food storehouse was gutted. The headquarters of the Disos had also fallen.

Only one Summiteer did Elsa see who had escaped with his life—the elder Malcinder. And-Clay Malcinder's father was quite mad.

Like a personification of unshakahla faith, the gaunt old hypocrite was now a shattered mystic. Like a dazed automaton he knelt at this place of worship, had curiously escaped the cave-in, His marsion was gone, his Shrine was gone, the monster he prayed to was certainly dead; still he knelt on the white slab of stone and waited, waited for the familiar whister he had always raid familiar whister he had always raid

obelsance to when he was sane. Elsa crowded close within Champlin's

arm.
"I've been wondering, since we came
out last night," she said apprehensively.

"Is there any danger that Clay Malcinder might still be alive somewhere down under us? Is there any danger he might find his way out—" Champlin shook his head. The arro-

t gant scion of the Malcinders had been o squarely beneath the center of the cavein,
"He lies forever under his precious

h Shrine," said Champlin, and his white teeth gleamed in a smile that was good e to see.

Something was going on at the edge of the ruins. Several Grubbers drew a form up to the surface by ropes. The form wriggled and turned out to he shorty Joe Sanburn, very much alive. His comrades had let him down to pick up a trophy, something he had stolen out of the altar walls before the exremony, and had lost in his retreat down

mony, and had lost in his retreat down the hillside.

"I found the demon!" Shorty Joe laughed. "I'll show him to you, Champ, if you'll promise not to use him on us

s' when you get to be our leader—or e-hadn't you heard?" rs Shorty Joe's prize proved to be a small but powerful stereoption pro-

o jector containing a single slide—an intricate painting of a demon with hungry red lips and reaching hands. "Here's what we saw on the screen

of smoke," Shorty Joe grinned. "No

wonder a knife went through him!" Champlin's blue eyes were triumphant. But there was pain in them

too, the memory of the frightful oppression now lifted from his people. He said slowly, "It has been a horri-

ble experience for us all. But it will never rise from its ashes to plague us again. For all time, this blight has been wiped from the earth."

Shorty Joe came forward then. He put his hand around his friend's shoulder and punched bim playfully in the iaw. Champlin snapped out of his

somber mood and nunched back. "Ouch!" Shorty Joe wailed. "Let up. will you? Do you think I'm a big

bruiser like yourself?" Everybody broke into laughter at

that. And Shorty Joe, remembering he

had a message to deliver, became suddenly serious.

"The people want you to stay and lead them," he said earnestly, "Even the

Higher-ups that escaped the fate are looking to a new life. You and Elsa could give us the guidance we need." Champlin caught his breath sharply.

"But Elsa-" "Wants to stay," the girl broke in,

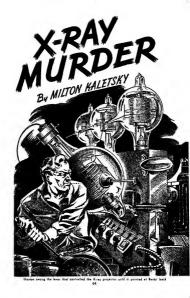
placing her hand on her sweetheart's broad shoulder. She smiled at Cham-

plin. Then the two of them looked up, to see that the Grubbers were standing anxiously close by, watching to learn what their decision would be, For a dramatic moment tears filled

Elsa's eyes as she gestured toward the patient faces about her-the faces that now glowed with the simple strength of Wayne Champlin's own vision "These," said Elsa softly, "are my

people, too."





The test of an efficient scientist and his success doesn't lie in genius, but in attention to exact detail and careful checking—even in plotting murder

ORTON arrived at the laboratory early. This was his day of triumph, he reflected, a twisted smile on his bony, emaciated face, Today he would remove the one ob-

stacle between him and fame. Though there was so little time. Horton dropped into a chair and sat glowering at the floor, brooding over the conversation he'd overheard vesterday. He'd been about to enter the director's office, when he heard his name mentioned. Stiffening rigidly, he'd listened.

rector stated quietly but firmly. "Horton has become too hasty and careless in his work. I've had many complaints that he doesn't check what he does. He's been told again and again to go over everything twice, to find and correct his errors before they cause trouble, but he doesn't do it. We can't tolerate it."

Across Horton's lined face had swept a spasm of hate and rage. Why should he bother to do good work when others. such as Banks, got all the fame and

glory, he thought angrily. Then Banks' soft voice had pleaded,



that something's been worrying him. He's been absorbed in thoughts of his

own, that's all."

At that, Horton had laughed noiselessly to himself. Sure, he'd been absorbed in his own thoughts, thinking up this simple, perfect way to get rid of Banks. The next instant, however, his twisted smile had vanished when he heard the director's definite and uncompromising reply.

"See here. Banks," the director had snapped. "You've been shielding Horton too long already. I know you and he are old friends, went to college together, and all that. But we can't be ruled by sentiment. You and Horton both started here as laboratory assistants. In six years you've become our best research worker. You're famous internationally, while Horton is still

what he started, an unimportant assistant. Worse, he's damned inefficient lately. If he doesn't improve very soon, out he goes. That's final!" But Leonard Horton, clenching his

fists agitatedly outside the director's office door, had a different explanation of his failure. Banks had cheated him. Banks had failed to give him his proper share of credit in the steady stream of discoveries that hore Banks' name.

That's why Leonard Horton was unknown. And that was also why Horton had been planning for months to kill Banks.

As the physicist rose to leave the director's office. Horton had rushed back to the laboratory, his mind a confusion of desperate thoughts. So they were going to fire him, were they? Then he had to act at once. Tomorrow morning he must put his plan into action. And

it was a good time, too, Banks was just completing his most important invention, which he'd been working on rather secretly for a year. With Banks dead, Horton could claim

this new discovery as his own, and fame and glory would at last be his. The institute certainly wouldn't fire him then.

Suppose the other research workers doubted that the new invention was Horton's, Ha, he'd thought of that, too! As soon as he killed Banks, he'd destroy all Banks' notes and calculations, and would substitute a duplicate set of figures in his own handwriting. Then nobody could prove that the new discovery wasn't his own.

HORTON came to life again suddenly. These brooding recollections had taken five minutes of his valnable time

"So I'm careless, am I? So I make mistakes in details, do I?" he muttered through writhing lips as he hastily set to work. "I'll show them how careful I can be!"

In the center of the laboratory, over a large table, stood the great glass bulb that was to make him famous-an Xray tube of a new type. By designing the tube on new principles, and by using direct current of far higher voltages than anyone had dared use before, Banks had obtained a new kind of radiation, more powerful and penetrating

than anything hitherto produced. It was these rays that were the great discovery. For Banks had found that with these rays, he could disrupt and rebuild atoms and molecules at will! Transmutation on a large scale was at last possible, and the secret of creation

was within man's grasp! So powerful were these rays that a few minutes' exposure to them meant quick, horrible death. Under their searing influence. living tissue dissolved into

formless dead matter. Therefore the tube's front half, from which the rays poured was covered with a ten-inch lead sheath to stop and absorb the deadly radiation. One small hole was left in the sheath, from which a slender beam of the rays was permitted to escape.

The back of the tube was uncovered, as no radiation escaped from that end. His slender body quivering emotionally, Horton opened the lead sheath, its halves swinging on heavy hinges. Using an electrically heated needle, he cut out a block of lead from the inside of the

sheath, near the small hole, then closed the sheath over the glass bulb again. From outside, no difference could be

seen, but part of the sheath was now only half an inch thick. Through that thin layer, the fatal rays would shower onto Banks as he bent over the table. And a few minutes later, only one person would know how to use the great tube, and only one person would get credit for it—Leonard Horton!

Quick steps sounded in the hall outside. Banks! In a panic of haste, Horton slipped the lead bar he'd cut from the sheath into his pocket, then leaped

to the switchboard which covered one wall. Snatching up two thick cables, he thrust them into the direct current outlets, one into the positive and one into

the negative, connecting the tube to the electric power source, just as Banks entered.

"Oh, here already, Leonard?" the physicist greeted, a friendly smile on

physicist greeted, a friendly smile on his handsome, studious face as he doffed his coat from his vigorous figure. Pretending to be busy, Horton mumbled an unintelligible reply.

Banks inspected the tube briefly, then prepared for work. Picking up a crystal, he mounted it in the hole in the sheath and turned on the power.

"Leonard," he said casually over his shoulder, "try to be more careful, won't you? Yesterday afternoon, I had to correct several things you did wrong." Horton kept his head turned away so that the fury in his eyes could not be seen. Mistakes, eh? Not today!

BANKS continued warningly, "The director is peeved because you don't

check what you do." He bent over the tube, frowning at the crystal. Ouivering visibly, Horton turned to

watch bim. The rays must be pouring through that thin part of the sheath over his enemy's entire torso. In a few minutes he must slump down,

dying.

Then Horton would carry out the last step in his plan, his master stroke.

Opening the sheath once more, he'd carefully melt in the piece he'd cut out, leaving no trace of what had been done. Unable to control his anxiety, Horton approached the table and stood behind the tube, opposite Banks. The scientist was impatiently waiting for the rays to take effect on the crystal. When minutes passed and nothing oc-

"Queer, something's wrong. This crystal should glow in the radiation. Leonard, are you sure the tube is..."

He stopped, startled. "Hey, what's the matter?" he cried, staring at his as-

curred, he murmured.

sistant.

Across the table, Horton was gasping for breath and slowly crumpling to the

for breath and slowly crumpling to the floor. His face, his whole head was disintegrating and melting away.

Banks snapped a switch, shutting off the tube, and vaulted over the table. He was already too late. Horton lay twitching on the floor, then quieted as the disintegration spread downward along his hody.

The physicist's shouts brought the director running from his office across the ball

the hall.

"Good Lord!" he gasped, taking in
the situation at a glance. "How'd he get

exposed to the rays?"
"What?" Banks cried.

"He looks just like the rabbit you tested the tube on," the director exclaimed. "Don't you remember?"

claimed. "Don't you remember?"
"Yes, yes!" Horror choked the
physicist. Bewildered, he repeated the

director's question, "But—but how'd he get rayed?"

The director stooped, observing a bar of lead protruding from the dead man's pocket. Gingerly he withdrew it.

"What could this be?" he asked, puz-

zied.

Biting bis lips agitatedly, Banks quickly opened the sheath to examine the tube and stared in amazement at the large hole Horton had made. Then, suddenly understanding, he took the

bar of lead from the director's hand and thrust it into the cut-out space. It fitted in exactly.

The two men regarded each other silently, both surmising what had been

silently, both surmising what had been supposed to happen. "So I might have been lying there like

"So I might have been lying there like that now," Banks muttered, staring at the formless mass that bad been a man him, I a minute earlier. "I still don't see how work."

the rays got him. He stood at the back of the tube."

He whirled to the switchboard and his jaw dropped. "Look!"

THE director's eyes followed the pointing finger. The cable which should have been inserted in the positive outlet hung from the negative source; while the cable that belonged in the negative outlet daugled from the

positive.

"Well, there it is," murmured the director, picking up a phone to call the police. "With the current reversed, the rays poured out the uncovered back

part of the tube."

Banks drew in a long breath, stepped to the switchhoard and pulled out the cables which Horton, in his haste, had reversed. Looking down at the dead man and shaking his head sorrowfully.

he muitered,
"Even in something so important to
him, he didn't bother to check his

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RIDDLES OF SCIENCE

9s There a Death Ray?





AS ACTUALLY BEEN DISCOVER IS CLAIMED TO HAVE BEEN USE IN CONQUERING THE KEY BELGIAN FOR EREN EMAEL . .



CENT DEMONSTRATIONS AT THE MAS DSITY OF CHICAGO CAMDUS OF AN INDESCRIBED BAY KILLED A GOAT INSTANTLY AT A RANGE OF 30 YARDS . . .

OES a death ray already exist? As far as science is concerned, this may no onger be a riddle. It is true that recently a goat died on the campus of Chicago der the carefully shielded muzzle of a device that was not a gun. It is also rue that Hitler has claimed to have a secret weapon, and that defenders of the Belgian key fort, Eben Emael, were overcome in a way even they do not understand. Thomas Edison was once purported to have turned over to the War Office a device so deadly as to be used only in America's direst peril. Has the death ray already been invented? The Man Who

Never Lived

by Ross Rocklynne

How could Blake Harrison remember life he had never lived? Worse yet, how could he be two men, one of them under sentence of death for piracy?

LAKE HARRISON, unshaved, dad in dirty flannels and open shirt, lounged at a corner table of the Red Café, the most ill-reputed saloon in Marsport, clutching a glass of Martian ale in his hig hand. His eyes, half closed from days of

carousing, watched a chorus of dancers cavorting in the middle of the floor, and the bawdy space-hands who applauded their act Two men, clad in the uniform of the

Martian port police, pushed their way through the cigarette smoke toward Blake Harrison. They stood over him, ominously. He looked up, startled, "You. Blake Harrison!" one said curtly. "You're under arrest!"

Before Harrison could resist, a pair of steel handcuffs snapped over his wrists.

"Say, what is this?" Harrison raged, throwing himself to his feet and wrestling wildly with the cuffs. The calm-faced officer pulled a Grav-

don flame pistol out from his waist. "March!" he said. He laughed jeeringly. "So the famous, so-wily Blake Harrison allows himself to get caught



in a cheap dive! I could have thought better of you. I didn't think you were

common scum!"

Harrison took one look at the pistol,
another one at the evil laughing faces

of the space-hands who had gathered

around in an interested circle.

His hands fell limply in front of him.

His law, which had seemed slackened

by drink before, now suddenly hardened, and grim sparks shot out of his cyes.

"I don't get it," he said, in a flat, steely voice, meeting the eyes of the officer burningly. "But I'll march—

officer burningly. "But I'll march and so will you, stuffed shirt, right out of your stripes, when my family back on Earth hears about this!"

The officer laughed gently, in great

humor.

"Family! Everyone knows Blake Harrison's family died five years after he was born, in a space-wreck, and that he was rescued by pirates; which accounts for his arrest now, in case he

doesn't know it!" His voice turned ugly. "C'mon, you—move!" Blake Harrison moved, without another word. His sudden rage had turned into a curious, tight-lipped wonder. He truly didn't know what this was all

about. What did these officers mean hy saying that his family had died in a space-wreck; that he himself had been

rescued by pirates?

No such thing! Something was very wrong, somewhere! But, knowing the port police of Marsport, the domed city which harbored all incoming liners on the planet Mars, the best, by far the best thing, was not to raise any rumms!

pus

A^T the other end of the domed city, Blake Harrison faced a granitefeatured chief of police, who tapped gently on his hroad-topped desk as he studied his prisoner. "You admit you're Blake Harrison," he said tonelessly, "hut refuse to admit that you're the pirate Blake Harrison?"

"You're the parate Biake Harrison"
"You're damned right I refuse to admit it," Harrison snarled. "You tinhorn police think you can go around arresting people just because their names

resting people just because that names happen to be the same! I'm telling you, the minute the cuffs fall away, there's going to be a hell of a lot of tin badges falling on the floor as you guys resign!
"I'll say I'm Blake Harrison—of the steel mill Harrisons! I hope," he said

ominously, "that means something to you!" He grinned triumphantly.

The granite-faced man smiled thinly, and glanced significantly at the two officers who had brought Harrison in. Then be motioned to his secretary, sit-

ting with pencil poised over her shorthand notebook.

"Get me the dossier on Blake Harrison, and call in the identity expert with the mouth plates of Blake Harrison."

The secretary handed him the dessier after a few minutes, then spoke into a phone across the room.

The chief of police of Marsoort

The chief of police of Marsport flicked open the dossier.

"Blake Harrison," he read. "Age 28, orphaned at the age of five, sheltered by a hand of pirates on Asteroid X until he was 21, when he took over the leadership with a series of killings. Since then, with his band has raided merchant vessels, kidnaped passengers from passenger ships, sacked unprotected vil

lages on the frontier planets, killing, robbing, torturing as he went."

The chief ran his eyes down a list

that evidently consisted of Blake Harrison's crimes. He finished up: "Description. Six feet, black eyes,

"Description. Six feet, black eyes, black hair, black beard; addicted to brown colors in clothing; smokes cigarettes or pipe; root stain on lower right evetooth; full lins; tanned."

He went on with other items, then raised calm, quizzical eves at the pris-

oner. "That fits Blake Harrison the pirate,

and it fits Blake Harrison, the so-called steel millions' son." Harrison stared at him with popping

eyes. He felt as if his reason was tottering. A cloud was rushing up

through his brain. He took one step forward, his lips

working.

"But I don't get it," he whispered, half extending his hands, "I know that description fits me, but I swear I'm-"

The chief suddenly leaned forward. his eyes abruptly hard and frosty.

"Shut up!" he clipped out, "Damn

you and your silly act! We've got you! Take it like a man. Oh-come in, Bert."

The identity expert came in. The chief of police motioned to him. The identity expert went up to Blake Harrison and, much as one would a horse, to inspect its age, he pried open Harrison's mouth skilfully, inserted a plate filled with a thick, gummy substance against the roof of that mouth, holding it there firmly. Then he eased it out

carefully. "It's him." the expert said disinterestedly as he started for the door. "Them mouth plates don't lie. There aren't two men in the world with the same roof of the mouth,"

BLAKE HARRISON stared after him agape, his head whirling. A frightful feeling of madness was creep-

ing in on him. In spite of himself, he began to shake. He went up to the desk and brought his cuffed hands down once, with a

thump "It's a frame-up," he whispered. "I swear it is! I've been on Mars for two weeks. I came in on the S.S. Lakington. You can check the passenger lists. Before that, I lived in Akron, Ohio, Before that, I went to Yale. I played football in the class of '80. I--"

He stopped as he saw the chief speak

into the telephone.

"Lakesley? Look on the passenger list for S.S. Lakington, incoming. Blake Harrison listed there? Hell, no? You'd have noticed it- Sure-sure- No.

we've got him here-he's cooking up a wild story- Thanks-thanks, Righta load off our minds," The chief hung up and leaned for-

ward, his eyes steely. He said ruminatively, "It's been a

long time that we've been trying to get you. Harrison. At last we've succeeded. And by God, there won't be a woman or child who won't cry for joy when they hear about it. Two months

from now, when you finally get back to Earth and trial, you'll find out what people think about you!" He made a motion. "Put him in a

cell-deportation in two weeks!" And Blake Harrison was hauled away, his face dull, his eyes haunted with the fear of his own madness. He

had never heard of Blake Harrison, the pirate! And if all the women and children on Earth had, why hadn't he? Why hadn't he?

HARRISON was in his cell two days before he decided on his escape. He had never thought of himself as a particularly daring person, but now he felt he would do anything rather than stay here for another twelve days, going mad

with his thoughts.

He had begged and pleaded for the guard to send a message to the warden to come and see him, to allow him to explain. The guard hadn't replied. Now

he was beginning to suspect that he must be the victim of a gigantic, incredible frame-up! He couldn't be Blake Harrison, the pirate! Or—the very thought sent shivers up his spine and sent him shuddering toward madness—was he? All that burden of proof! The mouth

plate. The dossier. Even down to the color he preferred in his clothing! No one could doubt that the chief of police knew he was a pirate they had been searching for.

Once he had called across to one of the nondescript occupants of a cell opposite him, asking about Harrison, the pirate—if there was such a person.

The man burst into a loud guffaw. "Sure, buddy," he roared. "You're him! The dirtlest, orneriest stinker that ever lived, you rat! Congratulations to the world that they caught you! At least, I never went around murdering people in bed!" He spat and turned away.

away.
Blake Harrison recoiled from that indictment, an indictment of him for
something dreadful that was going on
that be couldn't name! Whatever it
was, some fendful helt was going.
The police were certain this was the
feared pirate. Even his cellmates were!
So Harrison decided he couldn't stay
here any longer. If he did, held go
and—and think he was the pirate, too.

HIS cell had one window, at shoulder height. During the day, the air-conditioning apparatus that Maraport bassted blew the air out the window at night, for these boars, the air blew at the properties of the state of the state

Harrison studied his chances. He could look through the window with the thick bars lacing it, and see the lights of the city now. This was the rear of the jail, flanked first by a strip of land that had once started out to be a garden, but was now a weed-grown wilderness; and flanked beyond that by a noisome alley that led into main ave-

But Blake Harrison was not interested in the alley. He was more inter-

on the side of the building.

In the darkness of his cell, every

time the guard passed, he hoisted himself up to the broad window sill, scraped great quantities of the vines off the sides of the building, until he had made a great patch. He pulled them in, stuffed them under his bunk, a huge mess of them.

Constantly, he let himself down again as the guard came past, and then hoisted himself up again to draw in more. Finally he couldn't get any more of the vines. He called it a day, and went to bed, though troubled with fear that his plan was too slim, too fantastic to allow him success.

Harrison kept the vines hidden during the next two days by dropping the counterpane over the bed and almost to the floor. At the end of those two days, the vines bad dried out sufficiently to burn, though they were just green enough to cause great quantities of smoke.

And when that smoke, from the burning of a vine that had been carelessly transplanted from Earth to Mars, began to circulate through the jail—yes, even through the outler rooms, through the ventilating system, under the impulse of the Marsport night breeze—hell sheatil ppp—and there would be a lot of uncomfortable people within the space of a few minutes.

For this was Martian poison ivy!
"One thing in the world that is harder

than anything else not to do," Harrison told himself fervently. "To scratch! And there's going to be a lot of scratch-

ing people!" Harrison's plans after he should es-

cape seemed hopeless. But escape he must, if only to show his resentment at the way he was being treated. Too, there was a feeling deep in his mind that once he was free in Marsport, he could elude the police for a time long enough to enable him to establish his true identity.

He didn't let himself think what

would happen if even his radiograms to his mother and father didn't bring strong denials that he was any such thing as a pirate. What if, indeed, his radiograms were returned to the Marsport station because no such persons as his mother and father existed?

He stopped himself there, and devoted himself stubbornly to his desperate plan. He would go mad if he thought any more along those lines.

The fail quieted down as the sun ceased to send its red infiltration of light through the curving dome of the great Martian city. The faint city lights came on.

K EEPING his nerves from quaking the way they seemed likely to at any moment, Blake Harrison accepted his last cigarette of the day from the guard, held it to his mouth while the

guard lighted it and then walked on. He took one deeply appreciated puff on the cigarette, and then husbanded the slow glow jealously. He had to keep that glow until the strong night breeze began. Even if he had to transfer that glow to something else and risk detec-

tion.

"Now!" he said to himself. The breeze started coming fitfully through the window, and then more steadily as the huge fans below the city settled

down to their job. The wind became strong, sighing through the cell, through the jail, through the warden's office, the guard room, through the outer reception hall where prisoners were registered before being taken in for a looking-over.

Feverishly, Harrison dragged his vines out from under the bed, placed them in the middle of the floor, as the guard passed on his slow up and down iourney

He plucked a dead leaf from the vines, powdered it in his hand, took others, and made a little pile.

Quaking, he leaned far down, blew sparks from the cigarette onto the pile of tinder. The tinder smoldered. Under his coaxing, anxious breath, it suddealy leaned into flame! With a hissing of released breath. Blake Harrison shoved it under the beap, watched other dead leaves take hold, soon saw flame leaping through the whole base of the pile. A preliminary cloud of smoke

billowed away-through the cell door. "Good old poison ivy!" Blake Harrison whispered lovingly. "Ten times as virulent now as the kind they accidentally imported from Earth a cen-

tury ago!"

Oddly enough, the idea occurred to him only fleetingly that he himself was subject to this ivy; in fact, more susceptible because he was directly in its path. But something in the dim recesses of his mind told him that somehow, he would be immune.

More smoke rose, billowed away, the clouds growing in volume as the halfgreen stuff swiftly smoldered.

In a few minutes, a veritable river of acrid smoke was pouring out from the cell, billowing away in great clouds up the corridor, streaming through venti-

lator gratings.

The guard was bound to come any minute now. Harrison waited, tensed. ing. But he got to the cell door, peering in through hlinking, wet eyes. "What's going on in there?" he

"What's going on in there?" he roared. Receiving no answer from Harrison he burst into a stream of choking

curses. Keys rattled, a lock turned. The door swung open.

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Still choking, the guard entered. Harrison, hidden partly by the smoke, leaped. It was all over in a moment. The guard barely offered the resistance of a startled, upfung arm hefore Harrison bore him hard to the flooring, to strike his bead hard against the cement. The guard moaned and was still. Harrison still made on move to escare. The

guard's clothing would not fit him even if he wanted to try that method. He waited crouched.

being consummated.

The other prisoners were now waking up, and calling back and forth to each other. Suddenly they realized the smoke was coming from Harrison's cell, and were generously silent, realizing that some strange plan of escape was

TCEN minutes passed. Still the vines continued to smolder, though the great volume of smoke was dying down now. Blake Harrison chuckled exultantly. The smoke had been discovered in the outer rooms, but they wouldn't know where it was coming from. They must have henc hokking

so much too, that there had been confusion; and scratching! When the poison ivy smoke showed

Harrison decided he had hetter get out of there. He left his cell, ran swiftly down

He left his cell, ran swiftly down the corridor toward a turn in the hallway that gave way into the guard room.

When the poison ivy smoke showed signs of decreasing toward a minimum,

t. guard room, partly clouded by the smoke. A guard, holding his handkerchief over his mouth with one hand, and scratching madly at his legs with the e other, rushed in, evidently bound for

the cells, and saw him. His eyes bulged. Plainly, in that split second that counted so much, the man was divided

counted so much, the man was divided between an insane desire to scratch and a need to jerk out his pistol. He took one last agonizing scratch—and by that time, Blake Harrison was on him, had knocked him down, had struck him; and

He made the warden's clouded office, saw it was empty. He went on to the outer hall. Here he saw the warden, and three guards, all using both hands trying to scratch their entire bodies

then was on his way.

at the same time.

The warden saw Harrison, took one look, scratched agonizingly and then

yelled at the guards,
"Get him! That's Harrison!"

"Get him! That's Harrison!"

One of the guards panted, "I can't!

The hell with it! I itch!"

Blake Harrison went through, his one hundred and eighty pounds bowling

them over. Without another soul to stop him, he hurled open the tall double doors, bounded the granite stairs three at a time, and was in the street. In another five seconds, he had rounded

a corner, and was panting at the cruising driver of a two-wheeled, gyroscopicbalanced, atom-powered taxi.

balanced, atom-powered taxi, "Paddock Hotel, corner of Madison and Sunset! Quick!" The driver burned up the streets, in

ten minutes had let Harrison out,
"Wait here," said Harrison. He
dashed away. He didn't have any
money with him, but knew he had some

in his room.

He stopped at the registration desk,
holding out one imperative hand.

"Let me have my key!" he said.

He came into the brilliantly lighted

kempt figure up and down distastefully. "Nume?"

The supercilious clerk looked his un-

Blake Harrison knew a moment of shock as he realized that he had registered here under another name. Why? He gave the name, Ray Lanning; and received a shock that sent him rocking

back on his heels

The clerk ran his eyes down the list of names. He looked up with a scowl. "There's no Ray Lanning registered here," he snapped. He made a motion with his thumb. "Get out, bum, before I sic the house man on you! Move!"

▼ IGHTS flickered in front of Harri-L son's eves. With a savage motion, he turned the registration book around, reading wildly. He couldn't find his name, even though he remembered signing two weeks before!

The clerk suddenly made a motion to a man with a low-brimmed hat. The man with the low-brimmed hat started across the room toward Blake Harrison. Harrison caught sight of him out of the corner of his hurning eyes. He turned quickly, ran across the soft-carpeted lounge, past the elevators. He flung open a door, and found himself in

an alleyway. He ran up the alley, turned down another one, and up another, until he felt

sure no one had followed him. Then he huddled against a dark wall, and buried his burning face in his hands, little uncontrollable sohs coming from his stomach

Who was he?

He knew that he had come in on the S.S. Lakington, from Earth, two weeks before. He knew he had registered at the Paddock Hotel, at the same time. He knew that before that he had lived his whole life on Earth. He could recount his whole history there.

Yet-the mouth plates had proved beyond a shadow of a doubt that he was Blake Harrison a birate the whole solar system leared!

Finally he raised his head, staring unseeingly toward the main avenue where milled the night traffic of Marsport, automobiles with two wheels, pe-

destrians leaving shows or cafés. What was he to do now? If he was

caught by the police again, he'd never escape conviction as a notorious pirate. His mind began to work with thoughts he had dared not contemplate before. All these events had beoun in the café where he had been ar-

rested. As far as actual facts seemed to go now, he must have been born shortly before those events took blace! He took a deep breath, and moved on shuddering legs down poorly lit allevs, making his way back toward that cufé Somehow he must find the solution there.

The café was in the down-at-heel section of the town, where the air circulated more poorly than in other parts, hecause here was where the Martian dome came down to meet the ground. He hovered across the street, listening to the bawdy music, the roars of men, watching painted women and drunken men entering or leaving.

Suddenly, Harrison saw something that sent the breath soughing from his lungs. From a pair of basement steps a few doors removed from the café, a man with a hat pulled low over his eyes emerged. There was something about that figure that was monstrously famil-

iar And not only that, the man was

dressed in a shahhy suit of brown! Blake Harrison's hands crept up to his cheeks. His very skin was shuddering under the horror that was entering

his mind. For that man, who now moved down the street, head bent low, was-could be-none other than himself! Blake Harrison almost collapsed onto

AMAZING STORIES

the rude comblestones as the certainty of that came to him. The two of them were undeniably-identical! But how? Manua

LIARRISON wasted no more time in mad thoughts. He impelled himself across the street, fighting down his dizziness. He had one moment of sanity before he descended the hasement stairs. He stooped in the street, and with his heel chipped off a corner of the curb. It was made of a substance that would serve the purpose of chalk

On the smooth red wall above the

stairs he wrote four words, scrawling them boldly. He checked them over, feeling an impulse to laugh but unable to do so. Let any policeman read those words and he'd come running. But nobody else would pay any attention to them at all. At the bottom of the cement stairs,

admirably.

he opened the door without hesitation, closed it quickly behind him. The room was dark, except for an in-

filtration of light from a clouded window. As his eyes focused, he saw a rude bed, a washstand, a table, chairs, nothing else-except a door.

On cat feet, he approached that door, listening, fighting down his quick, hoarse breath. He put his hand to the knob, opened the door. The room was empty of life, though the light was on. It was a startling contrast to the first

room, for strangely constructed machinery-weird and unearthly even to Harrison's unmechanical mind-practically filled the room. He stood like a statue. A flash of

memory, that passed as quickly as it came, sent a wave of goose flesh to his skin. He had, in the split second be-

room! So the ephemeral thought told him. "Crazy!" Harrison gasped. "Crazy!" The cold, thick sweat was running down his face He closed the door behind him, running his eyes around the machinery; a

fore it eluded him, remembered being

in this room before. How long before?

He had no thought in his mind that

would tell him. He searched frantic-

ally. He found one scrap of informa-

tion that peculiarly revolted him, one

pened to him had happened in this

sudden memory. The first thing that had ever han-

coffin-like contrivance, with hall electrodes projecting from either end; a large funnel with a spray of peculiarly wound coils sprouting from it; a pedestal holding on knife edges something that looked like a replica of a human brain, only it had none of the ridges. What revolting thing had happened to Blake Harrison in this room, so revolting and horrible that his mind would not let him recall it?

His brain tottering, his perves strained to the breaking point he suddenly turned with a moan and flung open the door, pulling it tight after him. He held on to the knob as if afraid something were in there that would get him Then, realizing he was being irration-

al, he sank panting to a chair, burying his face in his hands, his thoughts whitling madly in his head . . . He heard a click. Something of the tenseness of his nerves must have made him supernormal in his muscular reactions. He sprang to his feet with a snarl and hurled himself toward the

agane.

The man recoiled.

man who stood in the door, mouth "You!" he screamed, as he saw Blake Harrison charging toward him.

The packages he was carrying dropped with a clatter. He flung up his arms, warded off Harrison's first furious, murderous blow. Harrison was flung to one side and spun bard against the wall, bis breath soughing from bis lungs.

HE saw the other man—a man the creact duplicate of himself—coming toward him, his curled back from even white teeth, black, evil eyes blaring with a stanti impulse. Something this Harrison cruzkingty. He raised but arms, kitche with one foot, caught his opponent on the chest. The man suggered backward, crashed into the stantier, even when the control, then the same the control of the control o

him with the full power of his fists, He plowed in, his mind working with a hate that was purely animal, could

a nate that was purely animal, could not even be accounted for. He caught a blow on the side of the head, retaliated with a fist that rose up

from his hips at express train speed. In the last split second, that murdering blow was deflected.

A huge fist started toward his own head. "I'll kill you!" the man with the satanic eyes whispered. "Yes, I will!

I created you—now I'll kill you!"
It was as it all the lights bad been turned out. Blackness engulfed Blake Harrison's brain in a great enveloping cloud. He tottered, reeled, then seemed to float down for an interminable length of time. Then, light as a feather, he seemed to strike the floor. Just as slow-ly, he drifted off to a sleep that was profound in its sheer lack of conscious-

ness . . .

Thoughts again began to stir in his sluggish mind, began to react on his muscles.

His eyes opened; a moan, feeble and

faraway, was ejected from his parted, bleeding lips.

He was still in the same room, staring through the shadowy darkness of it at a man—at himself!—a man who sat on the other side of the room, leaning slightly forward, a Graydon flame pistol balanced on bis knee. Harrison him-

self was bound to a chair.

Their eyes, alike in every way save

of or the sheer evil that burned in the other's, locked.

"You fool!" the other Blake Harrison whispered, his nostriks flaring. "How did you break jail?"

Harrison's lips moved as if he were in a trance.

"It doesn't matter." he muttered

throatily, his eyes staring with a horrible fascination at his double. "I want to know about myself!"

"About you! Know this, then. In a few minutes, you die. And it will not matter, because according to all the natural laws, you never lived!"

"I don't care about that," Harrison whispered, still throatily. "If I'm what I think I am, I won't want to live . . . But I can't be what I think I am," be cried suddenly, agonized. "I've got friends at home, a mother, a father, a brother; I've got a childhood, a boyhood, a manhood that I remember,

down to small details!

"But," be protested, seeming to shrink within himself, "you did all that, too! You did everything. You made me. You..."

THE other Blake Harrison smiled sadistically.

"I have," he said through barely moving lips, "a peculiar loathing against letting myself—you—die without telling you some small part of what really happened. Could you listen without going mad?"

"Yes," Harrison said dully.

"I am the pirate, Blake Harrison, and all the things you've heard about me are true." The double smiled again. "I came to Marsport, believing that I had established in the minds of the interplanetary police the belief that I was on Earth. That they would think to suspect my being in Marsport seemed out of the question.

"Someone recognized me in spite of my disguise. Within a day, I found it a risk to go on the streets, and I knew it would be impossible to leave Marsport. Every man would be inspected thoroughly, to make sure he was not Blake Harrison. No chance—except

Blake Harrison nodded limply. "To stop the police from looking for you, by having yourself apprehended. So—you fashioned me in your own likeness, and

I took the rap."

The other Blake Harrison nodded.

"I am a scientist," he said offhandedly, with a certain smugness. "If I hadn't been, I couldn't have kept away from the law for this long. For a month, I brought in the supplies to make a system of machines which I had started on

several years ago, but not quite completed.

"Finding it necessary to escape, necessity became the mother of invention, I completed my apparatus—doubtless you saw it," he said with a sneer. "Well, it's nothing if not complex. I could go into a lot of detail, probably, and tell you how to build one sourself—but

why?
"In a few minutes you'll be as much
without life as the basic electrons you
were created from." He laughed gently, evilly. "Still, I can say this much—
a stencil dufficates with the proper use

a stencil duplicates with the proper use of instruments and inks.

"A human being can be a stencil him-

self, and can be duplicated with the proper use of forces. I 'stenciled' you,

electron by electron, molecule by mole-

He leaned forward, his eyes glinting with sardonic amusement

"That coffin-like machine in there
was your birthplace, and I was the sten-

was your birthplace, and I was the stencil. With one exception, you were born with a fully developed body. The ex-

ception is that you were born with a virgin brain—with a baby's brain. And with the proper use of forces, I stendled your whole life, your whole list of past experiences, down to the smallest detail, on your brain. "Your name was Blake Harrison.

You were the rich son of a steel mill king. Your father was big, bluff, a stern business man. Your mother was a sweet, wonderful woman whom you worshiped. Your grades in school were fair. Your life was the normal life of a rich man's son.
"You left Harvard with honors. You

came to Mars, slightly wearied by the long trip. You decided to go on a bender, see what Martian night life was like. You were drinking Martian ate by the gallon—" He paused to let his cruel words sink in.

Blake Harrison was running with the sweat of agony, of revolt for himself.

"Don't," he said, shuddering. "You might tell me one more thing, though—and then go abead and kill me! I don't want to live anyway. I'm not human. I couldn't stand it. Why did you go to all the trouble—and it must have been trouble—to keep yourself out of my brain?"

This well known that atoms are grouped in very definite patterns, and that the electrons and protons of an atom are quite different in construction, with each cheamer. Also that molecules are made up of atoms grouped in certain ways, which make up certain compounds. Therefore, our bodies are a more of complicated patterns-tructures, which could be theoretically displacets and copied, were a means of such displacation mechanically and chemically derived.—Mr. THE MAN WHO NEVER LIVED

"FOOL!" the pirate sneered. "Then there would have been two Blake Harrisons who had to get out of Marsnort." "But you could have let one get cap-

tured, offering freedom to the other," "Great God!" the pirate breathed. "I gave you less brain-power than I thought! If one Blake Harrison escaped, it would simply mean that another would go to prison for life. And that one would become! It would be me even if it was the man that I created

"Let that be the end of it!" be suddenly snapped, tossing his head, "This plan failed. Why I explained to you I don't know-I waste time. Another Blake Harrison must be created, identical enough with yourself so that the police think they have recaptured you. But that Blake Harrison will not know what you know."

The pirate rose with a snaky motion, stood over the bound man. He raised the Graydon pistol slowly. Blake Harrison watched him dully.

honelessly. He was hitter now, hitter as no one man had ever been. It seemed incredible. He could recall his mother's face, her every characteristic with a clarity that was real, that made her real. Surely, she, and all the things he remembered happening to him, really existed. He groaned, tossing his head as a fever came to his mind.

He watched the real Blake Harrison's finger tightening on the trigger. Slowly -too slowly. "Shoot!" he croaked. "For God's

sake-shoot!"

The pirate's eyes were satanic as he slowly pulled in the trigger that would send a hot tube of intense flame burning through his captive's heart. He was taking his time, for his cruelty was no legend in the minds of men, but fact, Another second—and total oblivion!

The innocent Blake Harrison closed his eyes, glad, glad that nothing could save him now. But his eyes snapped open again, looked instinctively through the room's window. He saw a face, the face of a man garbed in the uniform of the port police. The fact abruptly disappeared. Harrison felt a cold wave of fear.

He yelled, "Shoot, you fool! Before it's too late!"

But it was too late. The door burst open, and two of the port police stood there, befuddled for an instant, and then alive with terrifying action. Harrison groaned abjectly, shuddering, Blake Harrison, the pirate, soun with

a wild curse, hurling himself backward, even as he fired blinding flame. His first charge was wide. He had no time for a second, for the arm that held the flame pistol was literally burnt off at the shoulder by the men in the doorway. Blake Harrison, the innocent, saw

that, sobbed at the irony of the fate that had robbed him of the death he wanted. Then he fainted dead away, as the police officers came charging into the room to take their screaming prisoner.

BLAKE HARRISON-the unrealcould not even bring himself to grin as he stood before a bandaged and painfully itching chief of police. Harrison's lips were turned down, and his eyes were sullen, lethargic.

THE chief, surreptitiously rubbing his thigh, grinned crookedly. "Well, Harrison, we've beard the

other Harrison's story-so that let's you out. You're a free man, and we've got the real criminal. And you've got yourself to thank for it. You know-the four words you wrote on the wall above

Harrison's place. "Poison ivy-ha, ha! Any cop who saw that, and who had heard about the episode in the fail, would have been attracted by that tip-off. Now nobody else but you could have known about it -we'd hardly tell anybody else about it, would we?" he said wryly, still

scratching persistently.

"I've got myself to blame for it," Blake said suddenly. "I wanted to die. Do you think I can go on living, knowing what I am?" he added with a burst of bitterness

The chief walked around his desk, looking concerned. He grasped Harri-

con'e arm

"Yes, what are you?" he said softly. "I said you were a free man. How that pirate Harrison ever did it. I don't know, and he'll never tell us. But he supplied you with all the experiences, all the education, all the background, all the memories of a normal person.

"True, your mother and father and brother and all your friends are deadto you-hut it should help your grief to know they never existed at all. I'm an orphan, but I don't think I'm a monster." He scratched uneasily. He looked

then straight into Blake Harrison's eyes, smiling, "Do you see what I mean, boy?"

A startled light was dawning on the

youngster's face. "I think I do," he breathed. His breath came fast. "Even though I was created-all human beings are created. When they reach my age, they have the

same average memories-it's no different." His chest swelled, and the corners of

his mouth drew up. The chief smiled in satisfaction.

"Good boy." He walked behind his desk again. "One more thing." The chief smiled

broadly and held out a slip of paper. Harrison took it

"A check," he gasped. "A-a hundred thousand dollars?"

"Right. Blake Harrison had a price on his head. That should be enough to give you a start in life." He grinned and then sobered. Absently he

scratched. "That poison ivy," the chief rumbled. "It was a good idea-but smoke?" He

looked incredulous.

"Sure." Blake Harrison smiled, "The other Harrison included that in my education. Burning poison ivy carries the poison in its smoke. It affects the skin

in just the same way." "But this worked fast!" the chief ob-

iected. "Why not? Martian poison ivy is ten times as virulent as that on Earth, because the conditions are more bostile. Well-" he paused-"I guess that about

winds it up." "But you? Why didn't you get it?" the chief demanded. "You handled the

weed itself, you were in the smoke." "Because," said Harrison, his eves twinkling, "I happen to be immune.

I'm-synthetic." The chief nodded forlornly. "Yeah. I figured as much, you lucky dog!" He wriggled vigorously on his swivel chair, flushing embarrassedly when he saw Blake Harrison watching him with the

makings of a grin.

PRESENTLY, "What are your plans now?"

Blake Harrison met his eyes steadily, a confident, happy light growing in his own.

"Back to Earth," he said softly, "Back to the planet I know as well as if I'd actually spent the greater part of my life there. I may be machine-made. but I'm a member of the human race, and I can catch experiences with the hest of 'em!"



(Concluded from sace 5)

TES sir, we can blume the whole thing on sun snots. Probably one of the strangest and most amazing theories ever advanced by scientists and economists is the sun snot theory of productivity. This theory proposes the fact that sun snots are the cause of most of our troubles, including our wars and our depressions.

According to the latest accordings of the scientists who are continually trying to emisin why mankind is so ornery, sun snots cause a variation in the health and vigor-giving ultra violet radiations that strike the earth. During a period of too many sun spots, people lose energy and go about with disagreeable dispositions. Nations as

a whole experience poor health and inferior productivity. Experts point to the vear 1934 as an example.

The whole world experienced a drought and far reaching decessions. shook every nation. It is citimed that wars are caused by long periods of discentent which follow the noor years coused by the sun mots

So the next time you feel like picking a fight, or drinking up your life's savings, you can blame it on all the sun spots.

So you think Hitler is peetty good at this blitzkrieg stuff? Well. he's a small town boy compared to the blitzbecause even without war bigger bombs than Hitler ever thought of are

idea l

likely to fall in our back yard at any time. Each day millions of high speed meteorites smark mercilessly against the surface of the Moon. With no cushion of atmosphere for protection, the Moon is constantly undergoing a spenking from shooting stars that strike the surface at speeds of more than 25 miles per second. You would be far safer under shell fire in No Man's Land then anywhere on the surface of the Moon. But don't so out to No Man's Land to test our theory. Right now, it wouldn't be such a good NO doubt you've noticed the effect of the war on our story titles this month. Robert Moore Williams dropped in a few days ago and asked us "What next?" So we showed him a cover by Robert Fuqua (the one on our front cover this month) and said, "How about a varu based on this cover?"

"Who's the grener with the his head?" saked Williams. We tried to be funny and said, "Maybe he is one of the fifth columniats of Mare." Darned if Williams didn't take us at our word!

NOT to be outdone, Frederic Arnold Kummer, Jr. did a little blitzkriesing of his own and

threw a little U-235 into the plot; came out with "Blitzkrieg-1950!" WE have beard a lot about the tremendous

pressure in the ocean's depths, but it remained for Captain Craig, famous deen see diverto register a most potent complaint about this phenomenon of nature.

It bespected when he went to salvage a cargo of wine and had successfully located the ship. He

and his crew brought the liquor to the surface only to find that the sea pressure had forced the corks deep into the bottles and sea water had ruined the wine.

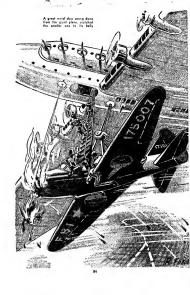
We admit that we, too, would have been disappointed after risking our lives in anticipation of a bottle of really old wine. Sea pressure increases at the rate of one ton per square inch with each mile of depth. Pieces of rope sent down to a depth of six miles were compressed to half their diameters. A reece of wood became to compressed that it no longer floated after being returned to the surface.

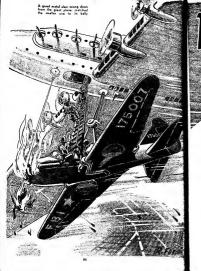
krieging on the Moon. "It's Adam Wellflower. His motor overheets when

We'd hate to live there be dences and he gets B. O. O .-- burned oil odor.

OUR last contest proved so popular that we have decided to feature more along various lines in future issues. We expect to present our second contest in the October issue. So keep your eyes peeled for something new, interesting and simple, with some very nice prizes that should be easy to win.

HAVING given you that tip we will close up the Observatory for another 30 days. Meanwhile, we wonder how many more secret weapons Hitler will lift from the pages of AMAZING STOKES. That 70-ton land battleship of his-the pillboxbusting tank-was on our back cover last December.-Rag.





BLITZKRIEG - 1950!

My FREDERIC ARNOLD KUMMER, JR.

Coale had the secret of U-235

in his grasp. Then out of the sky came the minions of a conqueror seeking atomic power

OU look as though you've been working hard," David Coale's visitor offered affably.
"I have." Coale's tone implied that

"I have." Coale's tone implied that he wished to get back to his work. He put it more directly in the next breath. "What do you want?"

Coale was a constant victim of unfair appraisal. He looked the complete Lincolnesque dreamer. Even those who knew him well, with the possible exception of Mary Vaughn, delighted in corparing him with an absent-minded pro-

fessor, and pointed to his amazing re-

search work as proof.

In some respects they were right. Because it is doubtful, for instance, if he realized that in the turmoil following the European War, one man who called himself Grom—"the thunderbolt"—had become head of a United Europe. It is doubtful if David Coale realized.

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had become head of a United Europe.
It is doubtful if David Coale realized
that Shirley Temple had made her first
adult picture, that the song of the hour
was "Love in the Clouds," that the first
aerial traffic cops had made their ap-



44 FREDERIC ARNOLD KUMMER, JR.

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In some respects they were right. Because it is doubtful, for instance, if he realized that in the turmoil following the European War, one man who called himself Grom — "the thunderholt" had become head of a United Europe. It is doubtful if David Coale realized that Shifey Temple had made her Irast adult picture, that the song of the hour was "Love in the Clouds," that the first earlit triffic cos had made their anSuch ignorance of current events be-

spoke a man completely lost in his work -but that he was an incipient, weakkneed dreamer proved, in the light of subsequent events, entirely fallacious.

Perhaps it was because be was tired. more hollow-eyed than usual; or perhaps it was because he stood before the laboratory's background of isotope filters, cyclotron recording machines, and mass spectroscopes. But whatever the cause, this particular evening Dave

Coale looked more like the forgetful young scientist than ever. "What do you want?"

In answer the small tanned man opened his wallet, exhibited a card. "You were expecting me, I believe.

Walker, of the F. B. I." His voice was businesslike. "My reason for coming here is just this. As you know, the nations of the world are becoming more and more dependent upon their scientists. Where statesmen and generals used to control the destinies of their people, now some chap like you, fiddling

around a laboratory, can change the fate of the world. "Take Grom, the head of Federated Europe, for instance. Working in obscurity somewhere in the Balkans he perfected the Z-ray. Within six months he and his crowd of fanatics had knocked off the big nations, which were played out by war, and made himself

kingpin. We'd have gone under, too, if the secret of the Z-ray badn't leaked out " Dave Coale smiled wearily. "Do I look as though I want to be a dictator?" he asked. "All I ask is to be allowed to continue my work in peace."

THE G-man disregarded the inference in the words.

"I know, Mr. Coale," he said evenly,

"We've no fears about you. But we understand you're working on something big in the power line, and if it should fall into unfriendly hands . . ."

"What I'm working on." Coale interrupted, bis long fingers drumming impatiently on the desk, "is something every schoolboy knows. In May, 1940. the uranium isotope U-235 was first produced in quantity. It was then discovered that one bad only to run a

stream of cold water over it to get unlimited power."* "That's all!" the lean little F. B. I. agent exclaimed. "But such a force could be used as a terrible explosive-" "One pound of which would be equal to thirty million pounds of T.N.T. The

one pound, if exploded at the same speed as T.N.T., would release a pressure of a hundred million atmospheres. or roughly a million times the pressure of any known explosive,"

Dave Coale brushed the hair from his "All this has been fully discussed in

recent years. And at the request of the State Department, I have taken precau-Coale swept the room with a gesture.

"Walls, floor and ceiling of concrete, * The reason for this is that free neutrons. caused everywhere by cosmic rays, will pass through the atoms of U-235 at their normal speed,

but are slowed down by the protons, or hydrogen atom cores, in the water and explode an atom of U-233. This releases other neutrons which are in turn slowed down and we have a chain reaction, liberating 200 million volts of energy per atom. And considering the fact that there are 2500 hff-lion billion atoms of U-235 to a gram and 453,72 grams to a pound, it is a source of almost limitless nower.

Normally U-235 is static. Run water over it and it commences to give off its terrific energy Stop the water and the reaction stops. Simplicity itself. All this was known in 1940, just as television was known years before it became practicable. The hitch was first in separating U-235 from ordinary uranium. An isotope with the same number of electrons, it couldn't be done chemically. David Coale found a way to do this, and

also of applying the released energy.-Ed.

man.

Window barred. Such notes as I keep are in code. I see no one except my family and my fiancée, Miss Vaughn, Within two weeks I shall turn my records over to the government and forget the whole matter. Why this sudden fear for my safety?" "I'll tell you." The government agent

leaned forward. "Ever hear of Dr. Sigmund Proust?"

"The physicist? Of course!" Coale nodded impatiently. "His work on the so-called brain-waves is noted. Why-" "Just this." The F. B. I. man's lean face went grim. "Three months ago be and his family disappeared. Vanished into thin air. Without a trace. And that's not all! Six weeks ago Professor John Bannerman, perhaps the greatest

chemist in America, disappeared. His home was found deserted. "The day before yesterday, the country place of Hugo Parton, the nation's most advanced plane designer, burned to the ground. We found no remains in the asbes. Moreover, there were certain curious implements found in the Bannerman case that indicate a diabol-

ical plot. Our strength in time of war depends not on generals and admirals. but on the brains of our scientists. "That's why I'm bere-to advise you to take every precaution. If your discovery should fall into the hands of an

"But . . . Good Lord!" Dave Coale hunched forward bis big shoulders, shook an incredulous head. "You can't force men to reveal their work if they don't want to! It's fantastic, ridiculous! How could anyone--"

enemy-"

A sudden shattering of glass at the laboratory window interrupted him, Wallace, the G-man, whirled, reaching for his gun. A pane had been smashed and between the heavy iron bars, two tiny winged objects bad darted. One of them circled aimlessly about the

"Look out!" Wallace shouted, burtling forward. "One touch and-"

CTRAIGHT for Coale's face the little metal object darted. Coale leaned

room, blundering into the walls, but the

other droned straight for Dave Coale,

who was nearer to it than the F. B. I.

to one side, but the flying thing turned to pursue him. Blindly the young scientist threw up one arm, and a needle in the "insect's" nose passed through the loose-banging folds of bis smock. Before the assailant could extricate itself, Watlace had struck it with bis gun butt. The strange object clattered to the floor. "Pierce your skin?" the G-man demanded

"No." Coale shook a dazed bead. "Caught in the slack of my sleeve. But what on earth-"

"Robots." Wallace picked up one of the small birdlike devices. Of aluminum, its wings were thin; a propeller at its tail drove it. Smashed open by the gun butt, an interior choked with intricate machinery was revealed. "We found two of these after the

Bannerman disappearance," the F. B. I. agent said. "Doped needle in their noses, tiny gasoline engines in them, like model planes; only much smaller. But that's not the damnedest part by a good bit. They are aimed toward a window, smash through the glass, and then follow the brain-waves toward any

person inside! "The way it was explained to me, each human brain gives off waves: some alpha waves, some beta waves. Discovered by a guy named Berger back in 1929. These robots, once they get close to a human being, follow these rays like

a radio beacon until they stick the victim with the needle, fill him with done. "But since the kidnapers can't tell whether the person or persons they're

hot.

after have alpha or heta hrain emanations, they send two robots; one to follow the beta waves, one to follow alpha. Apparently we both have the same type. which was lucky. Cute little gadgets,

aren't they?" "Good God!" Coale stared at the miniature robots, his eyes smouldering. "Then you were right!" Suddenly a

thought struck him. "Proust was an authority on brain-waves! They must have forced him to design these devices! Only the skill of a genius could have perfected anything as intricate as this.

And after they've doped their victim-" "The men behind this come in and carry him out. No fuss, no fight. A man on either side of him, I guess, getting him to a car or plane. Only this time"-the wiry little G-man grinned crookedly-"there isn't going to be any victim! Come on, Coale! My plane's on the roof! We're heading for Wash-

ington!" "Washington?" Dave Coale repeated. "But if you stay here, you may be able to capture them when they come in."

"We don't know how many are coming or how they're armed. Might have Z-rays or some kind of a nasty new device. You're just a hit too valuable to this country to risk, Coale! My orders were to see that nothing happened to you-and I'm obeying! I'm turning von over to F. B. I. Headquarters. where someone else can worry over your safetyl Now get that record book of

yours and come on!"

Still in a daze, Dave Coale followed the little government man from the lahoratory. It all seemed so fantastic, so unreal. One minute he was hard at work, lost in his usual fog of concentration; and the next, he was plunged into this turmoil of wild adventure. If he had known this would follow when he started work on the isotope U-235 . . .

"Okay," the F. B. I, man grunted as the elevator stopped at the roof. "Step on it1"

HALF a dozen privately owned nlanes stood on the hig rooftoo hangar. Wallace led the way to a light

maroon-colored ioh on the runway. "Hop in!" he snapped. "We-"

Furious shouts from the elevator made him bite the words off short. A dozen men were pouring out onto the roofton hangar, weapons glittering in their hands. Their leader raised a shining chrome and glass tube. A streak of wavy distorted air, like that above a too-hot radiator, was visible. A section of the iron railing about the roof's edge, struck by the heam, glowed white-

"Z-rays!" Wallace cried. goes!"

The motors roared and the little plane shot ahead, leaped skyward. "Why don't they shoot?" Coale mut-

tered. "They could pick us off easily." "They want you alive, remember. You're no good to them dead. Long as we're in the air they won't dare attack. for fear of our crashing. That's why I took the chance. Figured that Z-ray blast was just an attempt to scare us."

The G-man settled hack in his seat. "Washington, here we come! And will I be glad to check you at Headquarters. Coale! You're double-trouble to anyone just now!"

CHAPTER II Capture

HER motors purring softly, the little plane bore steadily south, Wallace had climbed to the 20,000-foot level where traffic was light. Below them an occasional commercial or passenger plane droned by, hird-like against the green fields and wooded areas of the distant ground.

A change had come over Dave Coale

as the rows of figures and formulae faded from his brain. No longer the student, the painstaking research man, he began to feel the zest of adventure. His discoveries in the refining and application of U-235 took on a new light.

They weren't just laboratory noise, experiments, now; they represented a vital force, a force that could mean destroyed cities, shattered armies, ruthless conquest. The liberty of America, of perhaps the entire world lay on the young scientist's shoulders. All that green and smiling countryside below them could be an inferno of titanic expensions: all that mankinds of laborious-

ly constructed could be snuffed out.

America, where men still dared to talk and act according to their consciences, depended on Dave Coale!

Never before had his own importance dawned on him, nor the terrible responsibilities of his scheduled work. He straightened his massive shoulders: his

big knotty hands gripped the armrests. "Funnyl" Wallace glanced at him, grinning. "Why you scientist guys never see the importance of your own work beats me! You get a correct arrangement of atoms or molecules or something, write a long-worded treatise about it, and don't realize what it will mean to the world!

"Then some smart guy comes along and uses it to change history, while the real discoverer—"

The G-man broke off, starting up through the glass roof of the cabin. A large six-motored plane, dwarfing the little marcon job like an ocean liner would tower over a fishing smack, had droned out of the clouds, was hovering ominously overhead. Black, mencing, the strange plane seemed a hawk poised above a sparrow. "Hm-m." Dave Coale frowned up at the great black plane. "They're too close for comfort. Better give them the siren."

Wallace tugged at the coupé's siren, but in spite of its warning scream, the dark shadow settled lower. The G-

man's face tightened.

"Looks like our friends again," he
s, muttered. "Didn't think they'd give up

muttered. "Didn't think they'd give up without a struggle. Still, I don't see what they can hope to do. Shoot down this joh, and the secret's lost for good. They won't dare try that."

He opened the throttle wide, but the light plane's single motor was no match for the six roaring engines of the huge homber-like pursuer.

Eyes like gunmetal, Dave Coale bent over the plane's radio, then shook his head in disgust.

"They've a powerful set aboard that hlankets us," he exclaimed. "We can't —Good Lord! Look!"

Wallace glanced up. The big plane was less than ten feet above them, keeping at their speed. And from its sable fuselage two immense iron claws, operating as smoothly as retractable landing gears, were descending! The attacking plane was like some giant condot, noised to strike at its pray!

Switty, instinctively, the G-man sowing his controls, but the black plane, expertly piloted, kept above it. Nearer and nearer it came, despite all efforts at escape. Suddenly the iron pincers changed about the coupé's wings, locked firmly into place! And at the same instant a bast from a Z-nay above tore the smaller abip's monet to fragment? The little marton fiper was merial the little marton fiper was more and the same instant as their marton fiper was proported by the six powerful motors.

"Clever!" Wallace muttered. "Terribly, damnably clever! They don't dare risk killing you and so—" He drew less some passing plane spots us . . . " BUT even that hope was cut short.

The big black ship nosed upward into a fleecy hank of clouds, completely concealing itself from any air traffic of the lower levels.

A ladder was lowered from the huge ship. Dark shapes descended, ghostly

in the misty clouds. "They're coming down!" Dave Coale's lips were a bleak line: he tossed the coded notehook from the plane's window, smiling grimly, "Exit the notes of the experiment! And I'll follow them before I give the results of

my work to this gang of hutchers!" "Stout fellow!" Wallace nodded. "You're not such a foggy-brained scien-He pointed the muzzle of his gun up-

tist as I thought 123

ward, fired. The glass roof panel splintered and one of the hazy figures, descending the ladder from the upper plane, gave a harsh cry, toppled into ray projectors; the ship, his dazed oblivion. Before Wallace could fire again, one of their attackers had burled a small round object through the smashed roof panel into the cahin. A

container of some sort, it broke, gave off clouds of vellowish vapor. "Gast" Coale leaned forward to smash open the windshield, but already

his lungs were full of the sickly sweet. geranium-scented stuff. He saw Wallace drop his gun, stagger to the floor, Reeling, overpowered hy a strange lassitude, one thought kept pounding through David Coale. He mustn't let them capture him alive, force the secret of U-235 from him! Mustn't, no mat-

ter what happened! That geranium smell-*

* Nerve-gas, first used in the 1940 war when the Germans captured the Reigian fortross of Ehen Emacl. Sickening stuff that renders men helpless, week - Ed.

Coale crawled toward the plane's door, fumbled for the catch. Air! If he could get air, he'd have the strength to leap to oblivion, taking his great secret with him. U-235 ... cities blasted . . . America losing its freedom . . .

With a heart-breaking effort Days Coale drew himself up, pressed the

door's catch. Before it swung open. however, a hand gripped his shoulder, dragged him back. Tall, dark-clad figures, their faces hidden by hideous gas masks, filled the tiny cahin of the plane. Very weakly Coale tried to

struggle but, sick, evercome by the nerve-gas, he was quickly subdued. "This is the one." A muffled voice

spoke from behind a gas mask. "Take

him up to the ship." Leaving Wallace limp and huddled on the cabin floor, two of the attackers carried Dave Coale up the swaying steel ladder, through a trandoor in the plane's belly. In the main saloon he could see heavy cannon, bulky Z-

senses told him, was more of a fighting craft than a passenger plane. A tall gaunt figure in grotesque gas mask rubbed lean nervous hands. "The last one!" he murmured, "Once

we get the secret of U-235, no one will be able to resist us!" He glanced down at the little flier still

secure in the great steel claws of the larger plane. "Let it go!"

"No!" Dave Coale whispered, staring with reddened, horrified eves

through the trapdoor. "Wallace . . . in plane . . . you can't . . . " But the gaunt figure made a com-

manding gesture, and one of his followers was hastening to obey. A tur at a lever and auxiliary motors whined, the steel laws that clutched the wings of the smaller craft opened, and the maroon coupé plummeted earthward through the clouds, bearing the unconscious F. B. I. man to terrible death!

DAVE COALE shook bimself. The effects of the nerve-gas were wearing off, and a diamond-like hardness had come into his seeking, scientist's

had come into his seeking, scientist's eyes.

"You swine!" he grated. "By God, if it's the last thing I ever do, you'll

pay for this! I . . ."

The gaunt man laughed mockingly.

"Don't be so hasty!" he grinned.

"You might regret harming those dear
to you!"

He signaled to one of the men in the rear of the cahin. A moment later a door opened and the man returned, leading a dark-haired girl.

"Mary!" Coale hurst out. "You... on this plane..."
"Exactly." The cadaverous leader

"Exactly." The cadaverous leader nodded carelessly. "Her presence, we felt, might persuade you to be reasonable."

But Coale wasn't "reasonable." He threw off his years of quiet calm and went primitive with a vengeance. Desperately he tried to shake off the leaden feeling of his limbs, to snatch the gun from the commander's holster.

Before he could do so, however, a pistol but thudded with sickening force against his temple. A million miles away he heard Mary scream, heard the chief of his assailants give a grunt of satisfaction. Then he was falling, falling into a black pit that had no bottom.

CHAPTER III

Fate's Cruel Irony

DAVE COALE remembered little of the next few hours aboard the plane. Through pain-racked mists he

saw the small cabin in which he was confined, heard the steady unending beat of motors. His head ached savagely and his thoughts were all jumbled, a montage of fleeting pictures.

Wallace, a limp, gasping figure, hurtling to his death . . . Mary, pale, bewildered, a captive aboard this ship

and himself, possessing the secret of refining, applying U-235 . . .

In enemy hands it would mean blasted cities, millions dead, ruin that would make that of the 1940 war seem like child's play. Haunted by terrible visions, Coale tossed restlessly until one of his captors, presumably a doctor, gave him a bitterish capsule and he fell

into a dreamless sleep.

f. It was Mary's voice, endlessly repeating his name, that aroused him. He opened his eyes, found himself in a large, gloomy room, surrounded by well-armed guards. The girl was e kneeling beside him, wan, dazed, as though she were living some mad nightmare.

"Awake, eh?" The words, spoken
with a heavy foreign accent, came from
a massive, jut-jawed man seated at a
desk. Glancing up, Dave Coale grinned harshly.

"Grom!" he muttered. "I might bave known!" "Yes." The dictator nodded his

squarish head. "You are honored, to be received by me. I've come all the way from Central Europe for this meeting. But you are important, Mr. Coale ... like myself, a man of destiny. By use of the Z-rays I succeeded in doing what so many men falled to do. Caesar, Napoleon, Hilter—I bave made their dreams come true.

"Now, by use of your U-235, I intend to unite the entire earth. Create a world state under my domination. An end to all wars, once we make the world state a reality. And by use of your ster.

methods for the refinement and application of U-235, it will be simple. A few American cities destroyed by rocket-bomlis, powered and exploded by the uranium isotope . . ."
"No, thanks." Coale shook bis bead.

"We've seen your work in Europe. No liberty, no free speech, lives subordinated to the state. A glorified ant-hill. If you think I'll . . ."

"I don't think, Mr. Coale. I know!"
Grom glanced at Mary. "If there's
anything I detest, it's melodramatics.
To be forced to do anything so revolting as to torture this girl would smack
of decadent sadism. I am a revolution-

"But as much as I detest the thought, I can assure you that I will not let one or two lives interfere with the destiny of the world. Be reasonable. Accept the inevitable. I can promise you a place of high honor when the new state has been created."

Coale turned to Mary, young and slender, very lovely in spite of the fear in her eyes. Torturel But that was a thing of the middle ages, the lauguit tion! In this day and age... Yet beneath Grom's stoild exterior there was a certain coldness, logic, and utter lack of personal emotion. Somehow he didn't seem a ma—he seemed a force.

ruthless, irresistible, inhuman.
"Put him with the others." The dictator motioned to his guards. "Give him time to think it over."

They saluted, led Coale from the room. One backward glance he had of Marty, a pale ivory statuette; of Grom, gripping the helt of his army uniform and barking orders. Then the guards led him along the corridor. Liya drawn in grim lines, he followed the two burly men. Six bours before he had been at peace in his laboratory. And now this madness! It seemed as though the past, the quiet research in New York, were another world.

A^T the end of the corridor a large metal door loomed. One of Coale's captors unlocked it, forced him through. The young scientist hlinked in the fierce sunlight that streamed through the har-

red window of the room. He appeared to be in a workshop or laboratory of some sort. Perhaps a dozen men were hent over tables, desks, seemingly bard at work on plans, designs, formulae. A stocky, bearded man glanced up as be entered, shook his head. "Coale!" he exclaimed. "You too!

I was afraid your work on U-235 would doom you! Welcome to hell!"

Dave Coale stared. The speaker was Bannerman, the chemist, who had so so mysteriously disappeared from his home in New Jersey. Bestde him was Hugo Parton, the plane designer, while among the others Coale recognized among the others Coale recognized winner, Hachit, the famous Japanese winner, Hachit, the famous Japanese biologist, Graham, the Australian metallureist.

"Regular 'Who's Who' of science, isn't it?" Bannerman smiled wearily. "Grom steals only the best brains to put to work on his war plans. You're hon-

to work on his war plans. You're honored."
"But where are we?" Coale glanced through a window at the array of build-

ings, factories, the sand dunes beyond.
"And why do you work for him?"
"Why? Why?" From the crowd of
silent, engrossed men a scarecrow
figure emerged. Face sunk over tooth-

less gums, eyes deep, tortured, figure bent and emaciated, he was only a travesty of the physicist Sigmund Proust. "Look at me, and you'll see why! In that building over there" — Proust

that building over there" — Proust pointed across the courtyard—"they keep our wives, children, sweethearts. I was stulihorn, would not give Grom

the sccret of my brain-wave experiments. I saw my wife and children burned to death before my eyes. Still, for my country, I would not obey Groon. Then they commenced to work on me." He shuddered. "I—I am human.

He shuddered. "I—I am human. Flesh and hlood can stand only so much. Be wise, young man. Obey!" Bannerman nodded somberly. "We've

pannerman nouted sometry: "we no choice. Lao Tze the Chinese physicals, killed himself rather than work forom. As punishment his wife cited, borribly. They made us watch, just in case we had similar ideas. It's hrawn over brains, Coale. Brains, physically weak, enslawed. Don't you see? "In the old days conquerous made"

slaves of the strong, put them to work. Grom's modern. He's made slaves of the world's hest hrains, using their genius to perfect the greatest of all war machines and to deprive his future ene-

mies of scientists.

"Proust, here, with his brain-waves,

perfected the little robots that got me and you, too, I guess. Parton's got orders to design a sort of long-range rocket plane, sent along radio heams to blast cities thousands of miles away. "They'll use your uranium isotope as

an explosive, no doubt. I'm to devise an artificial silk for Grom's parachute troops."

Dave Coale studied the plants and factories that surrounded their prison. The guards, he noticed, carried only beavy automatics, since Z-rays at close range would have blasted their own buildings to hits. Savage white sunlight drenched the fortress-like structure; the heat was staggering.

"How about escape?" Coale demanded. "You're chemists, physicists. Surely here in this workshop you could manufacture some weapon. . . ."

WORKSHOP?" Bannerman laughed. "D'you think they're

i- fools enough to give us equipment, n chemicals? We do the paper work l, designing, planning, outlining experiments for Grom's staff of scientists to perform. Then they give us the results h, and we study them.

"Proust is allowed small electrical apparatus with a low-amperage current. Parton can work on miniature planes, they give me all the silk and nylon I want for study—but when it comes to heavy tools or machines, dangerous chemicals, no soap.

"Moreover, in addition to armed guards, we happen to be in the middle of the Saharra in what was formerly French Algeria. We'd die of thirst hefore we'd gotten twenty miles away. "Forgret expan. Coale. It's improvibal."

f"Forget excape, Coale. It's impossible i". The other men in the room were glancing irritably at Bannerman and Dave Coale, now. The sound of conversation disturbed their thoughts, and they knew the penalty for failure to complete their day's work. Experiment pletted, most constitution of the conpletted, most constitution of the slaves of the dictator, they had lost their fight, their spirit.

Suddenly Coale, peering through the grating of the window, stiffened, his face pale. Several of Grow's men had come into the courtyard, and between two of them walked Mary Vaughn, her dark bair in disarray, ber dress torn, ragged. Grom strolled over to the window, smilling sardonically.

"Since you're so reluctant to tell us about U-2.52," he said, ""ev're forced to conduct our own experiments. Now as a conduct our own experiments. Now as gray heavy metal. But when surrounded by water the free neutrons, always present hecause of the cosmic rays' effect on air atoms, are slowed down to such an extent that they smash the U-253 storms and liberate tramen-

dous beat energy.

"Now, since the human hody is largely water. I wonder just what would happen if someone, say Miss Vaughn vander were to swallow a fragment of

Grom drew a small, round causule of the gray isotone from his nocket tossed it carelessly from hand to hand.

For one long minute Dave Coale stared incredulously at the tiny bit of metal. So many times he had seen a block of it, in the laboratory, turn water to steam. To swallow it would be like

having a live coal in one's stomach Mary, to suffer that torture because he refused to divulge his secret! He glanced at the girl out there in the courtvard, then at Proust's livid, painmarked features-and his shoulders

slumped dejectedly. "Okav." he grated and his eyes were like the pits of hell. "You win! I'll

play ball!"

morselessly.

The weeks that followed were rather like a weird delirium to Dave Coale. Hour after hour be sweated in the hig prison, reconstructing his notes, his lab book giving experiments to Grom's chemists to be performed. No time to reconsider, to reflect on the horror the dictator would let loose when the secrets of U-235 were in his hands. Like the other captured scientists he was a robot.

a slave, immersed in toil, driven on re-

When the method of extracting the isotope from uranium ore was revealed to Grom's chemists. Coale outlined the new method of applying it. No mere running of water over it, and thus obtaining steam: but a direct application of the tremendous energies released by the break-up of the atoms,

Parton, the plane designer, he was forced to make plans for the utilization of the new power source in great rockets, each carrying tons of the deadly explosive, to be directed by radio toward American cities, blast them into oblivion and submission. A terrible honelessness came over

Dave Coale. To refuse meant torture, torture that drove men to obey no matter how strong their will to resist while suicide was impossible because of the vigilant guards. Yet he was working to bring about the downfall of his own country, to stamp liberty from the

Blindly he toiled on, wondering when this insane nightmare would end

CHAPTER IV

face of the earth!

The Crucial Hour

THE big prison was hot in the searing North African sun. Dave Coale stood by a window, staring across the dusty, sun-swept courtyard at the women's quarters. Somewhere in that gray concrete building Mary Vaughn was imprisoned, along with the wives and children of the other scientists. Refore its harred windows figures passed, but he could not tell at that distance which

was hers. From the sprawling factories clustered about the broad court, the steady drone of machinery issued. Here was the refinery where the crude uranium was filtered of the precious isotope U-235. His method, used to create an explosive that would rain death on

America. Another factory was turning out the huge projectiles, each as big as a large plane Rocket-powered with stubby wings they needed no human hand to guide them. Radio heams, fixed by Nor did this end his labors. With "fifth columnists" in Washington, New York, Chicago, all the major cities of

America, would conduct them to their That rain of missiles would be Grom's method of declaring war, and would reduce cities to powder. Each of the projectiles carried twenty tons of the explosive—and twenty tons of U-215 war war. The project of the projectiles would instantly usuff out an entire city, leaving only a smoking crare to mark its site. And after the rain of destruction would come Grom's parachuse troops, armed with Z-ray projectors, to wipe out any remaining resistance, or wipe out any remaining resistance, to when the projectors is the projectors of the projectors of planes.

Dave Coale watched the workmen roll one of the big projectiles from the work sheds. It looked like a manmoth aerial bomb, except for the curved, stubby wings, and the rocket exhausts at the rear. It was only needed to fill the body of the shell with U-235, and the

deadly weapon would be ready.

Coale's hands gripped the bars at
the window until his knuckles were
white as chalk. Death, slavery, for
America . . . and he, Dave Coale, was
to blame!

Footsteps broke his chain of thought. Bannerman approached, tugging at his black beard, regarding the younger man quizzically.

"Better get back to work," he said.
"Grom's here for the week-end to see how the job's going. If they catch you loafing—"

Coale laughed bitterly.

"No more work for me just now," he
announced. "I've done my job. They're

ied him, eyes like polished anthracite.
"I'm not so sure of that—now," he said softly. "Lissen! I've been working on silk substitutes for Grom's parachute troops. They let me have all the silk I want?"—he motioned to the great

bolts of shimmering cloth at the rear of the room—"figuring it's harmless enough. Which it is. But—well, ani cient weapons and armor used to be a hobby of mine before I was kidnaped. And I happen to know that well-woven silk in sufficient thickness is bulletproof!"

"Silk? Bulletproof?" Coale laughed.
"You don't expect me to—"
"But I do!" Bannerman's voice was

low, insistent. "A chap named Bashford Dean, a captain in the British army during the war of 1914-18, wore a book called 'Helmets and Body Armor in Modern Warfare. 'Ive read it. During that war the British actually equipped four hundred men in each of several divisions with silk necklets, forming a sort of breastplate.

"Made of layers of finely woven silk, they weighed eleven ounces to the square foot. They were highly successful but the great cost, twenty-five dollars apiece, and the fact that they deteriorated rapidly with wear and moisture, made them impracticable."

BANNERMAN leaned forward as Coale still looked doubtful.

"Dammit, I know what I'm talking about! Japan used silk armor in the

old days. Later Germany and Russia experimented with it! Look—fortyfive automatics like those our guards carry have a velocity of 802 feet per second at close range! And according to British army statistics, up to 900 or 1000 feet per second, silk actually has an advantage over steel!

"I'm willing to cut up that parachute silk, make protective jackets for the lot of us if you've the nerve to try it!" A fierce fighting light flared in Dave

Coale's eyes.

"I'll say I'm ready!" he grated. "But
if we do get out of this room, what

then?"

Bannerman pointed to the hig rocket in the courtvard.

"How about that? If she can carry twenty tons of U-235, she'll carry us,

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Their set-up is as follows: they fill the rocket with the isotope, point her toward, say, New York. Fifth column men in New York have set up a radio sending out a direct beam.

"When the rocket comes within range of the funnel-like heam, it follows it to its source in the center of the city. The fifth column boys, of course, duck out before it lands. But they haven't swung into action yet! So if we take the rocket, we won't have their heams to contend with, and it'll he up to you to guide her in the air hy swinging her rocket exhausts.

"Once over America we hop out, parachute down. The rockets aren't huilt to make landings, of course. Think you can handle her hy juggling with the atomic motors?"

"I can try!" Coale grinned tightly. "Tell the others! Then let's get to work on those silk jackets!"

To the two guards who hrought them their evening meal, the dozen captured scientists appeared in no way different than usual. To be sure, they seemed somewhat more hulky than was normal, but beyond that the heavy silk padding beneath their clothes was not noticeable.

Dave Coale, standing idly hy his desk, felt his heart-heats quicken as the four hurly soldiers, hands on their automatics, wheeled the hig, food-laden table into the room. Would Bannerman's device work? It seemed unhelievable that silk could stop bullets.

Coale shot a glance at the chemist. Bannerman was leaning forward, eyes aglow, a silken noose in one hand. Behind him stood Proust: Mendez, the Argentinian and the other captives. clutching inkwells, sharp compasses, anything that might serve as a weapon, The four guards were turning, about to leave the room, when Coale gave a sharp command

"Now!" he shouted, plunging for-

ward. The first of the guards whirled, gun

hlazing. Coale felt as though two hruising, staggering blows had struck his chest. But in spite of the terrible force of the shots, his momentum carried him forward. A look of superstitious horror came over the man's face as he saw

that his bullets were useless. Before he could fire again. Dave Coale had wrenched the gun from his hand Of the other guards, not one had

escaped. Instinctively fired at their opponents' hodies, their shots had had no effect; while the rain of rulers, inkwells, compasses, had momentarily confused them. Within three minutes after the struggle had commenced, the guards

were helpless! "Lock them in!" Coale cried. "Getheir guns and come on!"

He glanced anxiously at the women's prison across the way. Already, at the sounds of shots, the hig sirens were wailing outside.

"Hurry!"

CHAPTER V

Triumph

TNTO the hall the strangely assorted group of men streamed. Hachiti, the Iap, was muttering in his native tongue. Proust recalling the torture that had racked his body, was wild with the thought of revenge.

As they raced along the corridor two guards rounded a corner, fired, but the silk "armor" again saved the fugitives. Bannerman's answering shots, however,

sent both men reeling to the floor. Two of the scientists scooped up the guns of the dead guards and the group it swing back.

of prisoners burst out into the sun-swept courtyard.

The dusty court was a scene of furious confusion. Workers from the factories were pouring from the refinery, the workrooms, racing toward the central citadel to arm, organize. The thin searing desert air quivered under the scream of the agonized alarm siren. Shouts and a strattering of shots echoed

among the buildings.

The great gleaming projectile lay like some fantastic rocket-ship, its chrome steel exhaust tubes shining in the fierce

sunlight.

"Keep back the guards!" Dave Coale shouted as they burst from the prison building. "I'll get the women!"

More shors struck dust from the flagstones. Two of the scientists, bit in their unprotected legs, toppled to the ground. While Parton and Proust kept up a steady fire with their automatics, the others carried the wounded scientists into the lee of the huge projectile. Dropping behind its stubby wings for protection, they fought back as best they could. It was only a ouestion of time.

into the lee of the huge projectific. Dropping behind its stubby wings for protection, they fought back as best they could. It was only a question of time, they realized, before Grom's men brought up Z-ray projectors, blasted them to dust.

Dave Coale, dashing into the women's

quarters, found the corridor deserted The massive iron door that separated him from Mary Vaughn and the other women was, however, securely locked. Desperately he pounded on it; but as well try to batter down a stone wall with his fists. Sudden footsteps, clattering along the corridor, sent him spinning about.

Two of Grom's soldiers, carrying heavy Z-ray projectors, appeared at the intersection of the passageway. One hastily aimed shot from a ray gun tore at the bricks behind Coale. Blindly he pressed the trigger of his automatic, firing with desperate haste. One of the guards swayed, topical against his companion, staggered his Before the second man could recover his behave, Coule's fist had crashed against his jaw, sent him to the flort. Outside, the shots were rattling in a furious crossendo, mingded with shoutst from Grown's men in the citaded. With desparate haste Coule snatched up one description of the country o

A dozen terrified women and children huddled against the rear wall of their prison, stared at him in nameless horror. Then Mary had detached herself from the group, was running toward

r him.
. "Dave!" she cried. "Dave, what is

e "Quick!" He motioned the captives s forward. "This way! Hurry!"

Over the red-hot still, along the corridor they raced. As they burst into the courtyard, Coale could see that the scientists were hard pressed. Mendez had been shot through the head. Seventhe of the others were wounded in arms or legs, which were unprotected by the silken arms. Coals swept the citable legs of the coale swept the citable in the coale which are the coale of the proposed with the 2-ray gun, and the proposed with the 2-ray gun, and the

"Now!" he cried. "Before they bring out their own ray projectors!"

PARTON and Bannerman sprang forward, unscrewed the shining nowe of the mighty projectile. Dave Contemotioned the women and children into the hollow space intended for the deart. It is explosive isotope. As they crawled into the metal chamber, a living cargo instead of twenty tens of U-235, Coalw's face suddenly hardened.

The stubby-winzed projectile was no

ship or plane-like a giant sky-rocket. it required someone outside to touch off the uranium motors that would send it into the heavens!

"In you go!" He waved the other

scientists through the opening "I'll stay outside to start the atomic blasts!" "You!" Parton cried. "But-Good God! We'll need you to guide this pro-

iectile!" "No time to argue!" Coale fired a

blast at the citadel embrasures. "Pm staving. . . ."

He whirled as a gun dug into his back. Sigmund Proust, bis torturemarked face set in fierce fanatic lines.

stood behind them. "Get in!" Proust said grimly. "I'm old, crippled. I've nothing left to live for, now that my wife and children are

-dead. Nothing except to even my score with Grom! In, or I swear I'll shoot!" For just a moment Dave Coale besi-

tated, then gripped the physicist's hand. "Good luck!" he said tightly. "The world will remember. Into the gleaming steel explosive

chamber Coale and Parton hurried. snapping the big pose-piece with its complicated detonating machinery, into place. The interior of the projectile was like some immense, pointed steam boiler. At its far end was a plate separating the explosive chamber from the atomic motors, and the radio beam directional device.

The twenty-odd men, women, and children lay huddled against the curved steel walls, pillowed against the parachutes Bannerman had taken from the laboratory. Outside, very faintly, they could hear the furious shouts, the ring of hullets upon the projectile,

Z-rays now, there would be no hope, A click at the rear of the projectile

was audible-and then a burst of power. U-235 atoms exploded, each atom releasing 200 million volts of energy. Proust had started the rockets!

The terrible pressure of acceleration ninned the fugitives to the rear wall of the projectile. Upward the great homb

roared, hurtling at terrifying speed toward the sub-stratosphere.

Suddenly, as Coale caught his breath, there came a roar that even in the projectile was deafening. Titanic, super-

nal forces were unleashed, like some catachysmic day of doom - and their escaping craft tossed wildly, as a leaf in a whirlwind. "Dave!" Mary caught at his arm.

"What-what is it?" For a long minute he didn't answer.

Then, as the rocket craft righted itself, he snoke solemnly. "Sigmund Proust. He said he was

going to settle with Grom. There were hundreds of tons of U-235 in the refinery there-and detonation apparatus for these projectiles. We must be forty or fifty miles away, to say nothing of a

couple of miles up, and yet the shock when Proust blew the whole works to bits. . . ." "The greatest explosion the world has

ever known!" Bannerman said tensely. "Grom his workshops his chemists, all blown to atoms! Only a crater left, perhaps bundreds of miles wide, in the middle of the desert. No one but you, Coale, knows the secret of U-235 now. And in the hands of our government, America will remain inviolate!"

NAVE COALE straightened his shoulders. Grom, his great factories-all gone! He glanced at the Zray projector he still held in his hand. If Grom's men were to open up with That would cut an opening from the explosive chamber back into the rear compartment, where the motors were located. By adjusting these motors, he could head the shell toward America; might even be able to land the steel craft, thus obviating the necessity of iumping by parachute. . . .

The unaccustomed light of battle died from Dave Coale's eyes, and the old patient, seeking, scientist's look returned. He began to trace diagrams on the metal floor, very intent.

"See here, Parton," he said reflectively. "I believe we can land this thing safely without having to bother about parachuting. Taking into consideration the wing area, and the directional

thrust of the rockets—"
Watching, Mary Vaughn smiled. The
two-fisted, grim-faced Dave Coale of
the past weeks had been all right; but
this was the man she knew and loved

A seeker after truth, delightfully, absent-mindedly tender, devoting his life to humanity's problems. A dreamer, tall, craggy, somehow Lincolnesque.

Yet to those who later might call her husband "such a brilliant man—isn't it too bad he's such a visionary?" Mary could say, with a gentle smile, that when be had been put to the test of sheer manhood, in a desperate fight to save America and the world at large from cruel dictatorship. David Coale had met

the challenge magnificently.

Happily, Mary put her arm around
Dave Coale's shoulder. And then, when
he had finished outlining his plan to land
the rocket craft, she drew his chin up to
hers and kissed him full on the lips,
right before them all.

TRICHS YOU CAN TEACH YOUR DOG

l Train Vicious Dags

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PETS

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The desire of a lovely woman to marry is certainly no problem for a lawyer—until he finds she's only eight years old, is not legally human and calls herself an incubaby

by JEP POWELL

SHE came without an appointment but she was palpably distressed, so Patricia ushered her into my sanctum without formality.

Patricia had been my secretary-receptionist too many years to fear the intrusion would catch me grappling with a problem of more moment than an anagram.

In fact, I was just twiddling my thumbs idly and wondering why I did not retire and turn my meager practice over to some deserving young lawyer

who needed it.

Fortunately, an impressive volume
of Supreme Court Reports lay open
in front of me.

Her blond beauty was breath-taking and she walked with natural grace; but she lacked poise when she stood in front of me, fumbling her handbag nervously. I judged her to be in her

late 'teens.

At my age, young beauty no longer

flusters me to gallantry. I raised myself a scant inch or two in a polite gesture and motioned to a chair. "Now what can I do for you, young lady?" I inquired, steepling my fingers

and pursing my lips professionally.
"I want to get married," she declared.
"I'm afraid you've been misdirected."

I smiled. "Now, if you were seeking to get away from narriage—divorce, say—it might be more in my line. But I haven't handled a divorce case in many years; don't intend resuming the practice at this late date. So, either way, I'm afraid you've come to the wrong place. Unless. "I was feeling in rare humor, "Unless I'm to interriret your statement as a proposal

of marriage."

She looked at me quizzically. "Danny sent me here," she said in a low, vibrant voice.

voice.

"Ah-h-h, I see," I replied falsely.

"And who is Danny?"





closed.

know him?"

-this Danny?"

"From the identification you give me, I suppose I ought to." I said unable to restrain my sarcasm. "But I'm afraid my memory is failing me. Danny who?

What is his last name?" Her face clouded. "Danny is all I

know." "What!" I gasped, "You want to marry a man and don't even know his name? How long have you known this

"Since vesterday," she said, "He is nice and I like to be with him. He sald if we were married, we could be together all the time. So we want to be

married." A queer sound escaped from my throat as I struggled for words

"My dear young lady, do you know what marriage is?" I finally managed rhetorically "What is it?" she asked innocently.

Again I was unable to find my tongue. I squirmed as I have made witnesses squirm on the stand. Was this some sort of prank? I did not believe it was

Her large blue eyes were serious as she awaited my answer. What would I tell her? Why tell her anything? Why should a veteran trial lawyer be trapped by a young woman yet in her 'teens?

"How old are you, young lady?" I evaded adroitly. "Eight."

SPUTTERED incoherently and my face must have undergone dreadful contortions, because she seemed frightened.

"Preposterous!" I exploded, my eyes sweeping her perfect, mature figure, "Are you jesting or crazy? Why you're

She sprang to her feet, eyes flashing defiance at my challenge to her statement. Her right hand flew to a slide fastener at her left shoulder and zinned it down to the hem in one movement. I reached her before she could wriggle

out of her dress "No. no! Not here . . . I mean,

not anywhere! . . . what were you ... keep still!" I gibbered as I erabbed for the slide and terked it up-

ward into place, "Calm yourself, young lady," I added, dabbing a handkerchief at my forehead and sinking weakly into my chair. I was thankful my door was The phone buzzer sounded and my

wife's face appeared in the photo-dial. I shuddered. Judith is not bad-looking for a woman rounding fifty, but sometimes her face can be imperious. It was imperious now. Before answering, I moved the instrument to be sure my pretty client was not in focus of the viso-lens

Iudith wanted to remind me to pick up a magazine on my way home. She hesitated before disconnecting.

"What's the matter with you?" she demanded. "Why, nothing, m'dear. Nothing at

all, I assure you. Quite nothing," I stammered. "You've got a guilty look on your

face, you old foo!" There was a click and her face was gone. I felt better. I cleared my throat

formally and returned to my client. "Now, my dear, let's get down to business and cast jesting aside." I thoughtfully added, "But not clothes," "I'm really much nearer nine years

old," she explained sweetly, "Perhaps I should have said nine."

I was beginning to wonder, by then, if I were crazy. Here a beautiful, fullblown had of womanhood set before me and insisted she was eight years old, or nearly nine. Were my ears deceiving

me, or my eyes?

I was about to ring for Patricia to assure me which, when the phone buzzer sounded again. A handsome but anxious face appeared in the dial. His dark, curly hair and blue eyes seemed familiar.

I announced myself: "Zachary

Dunne speaking."
"This is Daniel Laird, Mr. Dunne,

Is Vivian there?"

Daniel Laird had been famous just a few years hefore as a nine-goal man on his college aero-polo squadron. Now he was one of the country's youngest big business executives. His father had been a good friend of mine. Was this her Danny?

It was a moment before I could recover. I cupped my hand over the

transmitter and turned to the girl. "Are you Vivian?"

"Yes." She saw Laird and strained toward the viso-phone, "Please tell bim to burry,"

Laird caught a glimpse of her and continued excitedly.

"Look, Mr. Dunne, I don't want any of my company lawyers messing with this, so I put her in a taxycle and sent her to you. Told driver to bring her right to your office. Meant to meet her there but can't. ... being followed.

"Could shake my shadows, I think, but won't risk it. Could you take her home with you tonight and bring her back in the morning? I'll meet you there at ten o'clock and explain everything. Hanging up now. Don't want the call traced. Take good care of her and tell her not to worry."

CHAPTER II

Test-Tube Girl

WHAT was the meaning of young Laird's strange actions? Why was he being shadowed? Why all the

mystery? And bow did this girl fit into the picture? I assured myself Laird could explain, but some misgiving linsered in my mind. I would find out something from this strange girl but I would have to question her cautiously, y I decided.

"Well, Miss-ah-Vivian," I smiled assuringly, "your Danny is a fine young

man, I know him."
"I knew it!" she cried happily, "Is he

"I knew it!" she cried happily. "Is i coming now?"

"Well—er—not immediately," I explained. "In fact, he cannot get here until tomorrow morning. In the meantime, you can spend the night with me." Her face clouded momentarily.

Then, "All right."

"Er—ahem!—as a guest in my home," I hastily amended in embarrass-

home," I hastily amended in embarrassment.

ed She showed no sign of embarrass-

It's a nice name, isn't it?"

ill ment. I could not understand this girl.

In a way, she seemed as young and innod cent as she claimed to be.

cent as she claimed to be.

"Your Danny is Daniel Laird," I resumed and awaited her reaction ex-

pectantly.

"Laird? Laird?" She mouthed the name as if savoring it. "Danny Laird.

"A nice name! Is that all it means to you?" I demanded. "Daniel Laird, aero-polo star; Daniel Laird, head of one of the country's biggest motor companies; Daniel Laird, a name uttered along with a prayer by every society matron with a debutante. But to you, it's just a nice name! Who are you, Vivian, what is your! last name?"

"Vivian, is all. That's all they ever call me at the lah."

"Lab? You mean 'laboratory'?"
"Yes, Dr. Shaiman's."
"Neo Shaiman?" I blurted in amaze-

ment. "Then you're a . . ."

"I'm-I was-an incubaby."

For the fourth time within scarcely a

quarter of an hour, this lovely young creature had stricken me speechless. But now there was a dawn of enlightenment. This motherless, fatherless child of science, this pretty product of artificial creation, was just a human guinea pig under Neo Shaiman's micro-

scope. No wonder, I thought, she knows nothing about men or about marriage. Shaiman had educated her well in some ways, no doubt, but had omitted

knowledge he deemed unfit for his purposes. He had even deceived her about her age.

Then I was shocked by the sudden realization that Shaiman's discovery which produced incubables was comparatively new, I counted back on my fingers. Not more than ten years old. Then the age she gave-eight-must be correct!

I RECALLED that the announcement of Shaiman's discovery also mentioned his ability to speed up the growth of his test-tube offspring, but I had

never seen a real incubaby. To say I was amazed by this girl is a mild understatement Why hadn't this unusual girl been in

the news, the gravure sections, television? Did Shaiman have some deep motive - some sinister motive - for carrying on his work in secrecy? I eved Vivian with frank astonishment.

"What is wrong?" she asked anxjously. "At the lab, they are proud of me. There are a lot of incubables now. Dr. Shaiman says I should be proud of being the oldest." She seemed uncertain and about to cry.

"There, there," I consoled, patting her on the shoulder. "Of course you should be proud. I was just-er-bewildered."

What magic had Shaiman employed to make her into a mature, beautiful girl at the age of eight? Surely she could

not answer that. I decided not to question her until later. "Sure you should be proud, and

Danny will be proud of you," She brightened.

"How did you meet Danny?" I

asked. "He's been to the lab several times, walking around and talking with Dr.

Shaiman. Yesterday my nurse brought some pretty clothes to me and, when I was dressed, she took me into Dr. Shaiman's office. And Danny was there. Then Danny and I went out and rode and rode and rode. He did a strange thing. He placed both of his arms around me and put his lips against mine." She closed her eyes, "But I liked it."

"M-m-m-m," I commented. "And what did you do?"

"Nothing. I just asked him to do it again."

"Oh. you did?" I chuckled. "Yes, And he did, And I told him I liked to be with him, and asked him to come to the laboratory more so I could see bim often. Then he told me we

could be together all the time if we were married." She smiled like a happy child. "Won't that be nice?" "Eh? Oh, yes, of course, But what

does Dr. Shaiman say about this?" I inquired.

"He doesn't know it. Danny told me not to tell him. So I didn't. And when Danny came to the lab today, I was dressed in my pretty clothes again and we ran away. Two of Dr. Shaiman's helpers chased us. It was fun." She giggled. "Then Danny told the driver to bring me here and he hopped out of

the taxvcle." I thought it would be well to take her home while she was in a good humor. I picked up the phone to call Judith, but immediately reconsidered and cradled it. I found myself in a quandary, If I called Judith and told her I was bringing a child, then showed up with a beautiful young woman, it would prove awkward.

On the other hand, if I phoned I was bringing a young lady. Judith might oppose it at once. Yet I could not let Dan Laird down. I decided to take her home unannounced and straighten out matters there.

DATRICIA eyed me disapprovingly when we walked out of the office, and I told her we were going home for the day. We took the elevator to the fourth floor and walked to the Forty-second Street entrance, third level. A taxycle whisked us to the Long Island catapult at the south end of Welfare Island.

We stepped on the scales and I deposited our fares. Our tickets, with our weights printed on them, popped out of the slots and I noticed Vivian weighed 122 pounds.

A moment later we were cramped in our seats in the capsule, and a weight inspector glanced at our tickets. told Vivian she would have to change seats with a beavier passenger. She clung to my arm, trembling,

"Can't you use a little equalizing ballast?" I asked the inspector. "This is her first catapult . . . isn't it?"

Vivian nodded. He grumbled something and moved on. Passengers 19 and 20 entered, taking the last two seats. The inspector stepped out, closed the door and locked it. There were a few moments for weight adjustments and wind velocity compensations, then our capsule dropped backward into the compression tube.

For a split second we rested at the bottom. Then, with a deafening shriek of escaping air and a faint \$0\$! In our wake, we were whizzing across Long Island

Vivian trembled and tried to bury her

face in my shoulder. I out my arm around her. A nosy commuter gave me a sly wink. I glowered at him and held her closer.

"We'll be there in a minute," I told her.

The nose of the capsule began to drop and I glanced at the dials up front. I've often wondered why the dials were put there; probably just to engage the passenger's mind during that minute or two of bullet-like flight. No one in the tube could do anything

about it, if something went wrong. And there is no pilot. I watched the radio beam narrow to a fine thread. Several of the passengers emitted audible sighs of relief. We were coming in straight. The crew at the receiving station

could alter our course slightly by radio control, also shift the mouth of the reception tube to meet us squarely. In another half minute we plunged

into the tube with a roaring wheeze, We made three bouncing half-stops. then coasted to a smooth halt at the Westbury terminal. We were lucky to grab a taxycle; and

two minutes later we walked into my home. Judith was surprised at my early arrival. But she was more surprised at my pretty companion. It made me uncomfortable. The thought of the magazine I had forgotten added to my uneasiness.

"Oh, hello, Vear, this is Div . . . I mean Vivian . . . Mrs. Dunne, my viff." I fumbled "Charmed." Judith cooed venom-

ously. "But I failed to catch the last name."

TRIED to rush to the rescue. but Vivian promptly answered. "Vivian is all the name I have."

"I see," Judith said and sniffed with just the proper amount of delicacy.

"Just Vivian," I simpered. "My

client. I brought her home for the night." "I see," Judith repeated. The sniff

was more pronounced. "In your-ahyour custody? I thought you now confined your practice to civil cases."

I planced anxiously at Vivian and was

thankful the barb overshot. "Now, see here, Judith," I remon-

strated. "Vivian is the sweetheart of one of my clients."

"Since when did you start harboring your clients' sweethearts?" she retorted. I never knew until then how loathsome the word "sweetheart" could heuros

Vivian sensed the storm. Her brow puckered and her lower lip trembled. "I'm sorry," she sniffled, "I am to

blame. There's something wrong with me. I'm not like other people. Oh-h-h-

h!" She dropped into a chair and began crying wretchedly. Each tremulous sob

ripped at my heart. "Enough of this, Judith!" I barked

with a sudden surse of courage. "Don't hurt her feelings any more."

I rang for Stockbridge, our butler, and continued to scowl at my wife.

"Call Cora," I commanded Stockbridge, "and have her draw a bath. Miss -- er -- Miss Vivian will want to freshen up a bit before dinner. And tell Cora to come down when the bath is ready."

Juditb was stunned by my unexpected outburst. I turned my attention to Vivian, edg-

ing myself onto the chair beside her and putting my arm around her. "There now, child," I soothed.

"You're just upset by the events of the day. A warm bath will quiet your nerves. Then we'll have dinner."

Gradually her sobs abated to pitcous little snuffles. Cora appeared and I sent Vivian upstairs.

"And now, Judith," I snapped. "Aren't you ashamed of hurting that

innocent child?" I told her how the girl had come to my office in the afternoon, a fugitive

from Neo Shaiman's laboratory, a bewildered creature in a strange world of normal people. I scored when I told her about Daniel Laird's plan to marry Vivian. I told her everything that was said at my office-everything except with regard to Vivian's attempt

to prove ber age by disrobing. I was not Zach Dunne arguing with his wife. I was E. Zachary Dunne pleading a client's cause before a jury of one. For twenty minutes I employed every bit of eloquence I ever unleashed in a courtroom. I saw Judith was weakening: but I was the weaker.

I rang for Stockbridge and ordered a Martini

"Make it two," Judith said. "I need one."

"Make it three," I raised. "Miss Vivian should be down shortly. Maybe she'd like one "

UDITH and I were silent for a minute.

"Well, dear, do you blame me for wanting to help her?" I finally asked. "No-o-o, Zacb," sbe admitted somewhat grudgingly. "But you were so mysterious. If you had explained everything at first, I would have realized she was just a child." As an after-

thought, "And maybe you shouldn't have ordered that cocktail for her." "Maybe not: I didn't think."

"Of course you must help her, Zach," Judith continued. "Just the thought of her being raised in a laboratory like

that makes me shudder. Isn't she lucky to catch a nice young man like Daniel Laird?"

"Marriage intentions have to be advertised." I mused aloud. "I wonder

if old Shaiman could prevent the marriage. I don't suppose he'd give her up without a hattle."

"Laird's rich." Judith informed me. "He could pay Shaiman plenty. He could pay a million and never miss it." "It isn't that." I explained. "Shai-

man is a scientist. Money probably doesn't interest him. His experiments

are more important."

"But what could he want with her

now? He's raised her from --- from nothing to a full-grown girl." "That's just it-to maturity." I said

solemnly. "He may have further experiments."

"Zachary! You think of the damnedest things!"

CHAPTER III

Problem Child

CTOCKBRIDGE brought in the Martinis. As I picked up mine, he froze as if suddenly caught in a wrong act. His eyes sought the ceiling. I glanced over my shoulder and dropped my glass.

There was Vivian, tripping merrily down the stairs and as destitute of clothing as on the day she went into the incuhator. She paused and I tried to

wave her hack, but I was too late. "I'm ready for my oxydyne now." she chirped

She stood there smiling, starry-eyed, fresh. From the aureole of her shimmering golden hair to the tips of her dainty toes, she was flushed a glowing pink after the warm tub and brisk toweling.

"Chec-ild!" Judith snorted. "Get that batchery bussy out of here this instant, Zachary Dunne, or I'll . . . I'll . . ." Her threat ended in a gurgle of rage.

"Vivian, your clothes!" I shouted,

taking a step toward the stairs. "No. you don't, you philandering old fool," Judith hellowed, pulling me back and springing past me. "I'll

handle this!" Vivian, terrified, fled up the stairs.

In one gulp. Stockbridge solved the problem of the third Martini. I did not reprimand him, or blame him, as he swallowed that cocktail in a gulp.

"Iudith!" I velled up the stairs. "If

you harm one hair on that child's head. FB . . . FB . . . Another threat went unfinished. But

I knew Judith's tongue was her worst weapon. I'd wait until Vivian had time to put on some clothes, then I'd go up and intercede for her.

"Stockbridge, I dropped my drink. Bring me another," I said. "But make it a brandy."

"Yes, sir." He stooped to pick up my hroken glass. "A double-brandy," I amended.

Fortified with a double-brandy I tip-

toed upstairs and listened at Vivian's door. She was crying softly. There was no other sound. I crept downstairs and ordered another brandy

At the end of five minutes I went up again. Their voices were mingled in a low hum. No anger in Judith's tones now. I sneaked hack downstairs and waited; five minutes, ten minutes, half an hour.

When Judith came down her eyes were red-rimmed. She swished past me and headed for the kitchen. I caught her arm.

"Iudith, you-you didn't hurt her?" I tried to force concern in my voice. "No. I didn't." she snapped. "And anyone who does, will do it over my

dead hody!" "Why, Judy, you're crying!" "What if I am?" she blurted. "You

blundering old fool! I could strangle you, Zachary Dunne - causing that sweet child all this anguish and embar-

103 rassment."

"Who, me?" "Yes, you! Why didn't you tell me she has to have her oxydyne after her bath? . . Oh-h-h, Zach . . Oh, God.

dear God, forgive me!" she hlubbered. "I could cut my vile tongue out for talking to her that way."

TEARS hroke and cascaded down her cheeks. She was crying now, unrestrained and unashamed. I took her

in my arms and held her until she had cried berealf out

"What is oxydyne, dear?" I finally asked. "I don't know. I've had Cora tele-

phoning everywhere. No one seems to know what it is. Maybe it is some secret formula of that old-old monster. Neo Shaiman . . ."

I cleared my throat. "Dinner is about ready, dear," I said. "Will she be down right away?"

"She will not! She's having her dinner in bed," Judith declared, "and it

is not going to be served by any of these smirking servants, I'm doing it myself!" She flounced toward the kitchen.

So Stockbridge served dinner for one and I retired to my room early to ponder the problems of this strange oirl who had come to me. Could she, after all, marry Daniel Laird? What was her legal age? Would the law hold her to her calendar age, or would it recognize her hiological age? Was she a legal entity at all? I closed my eyes and repeated the Fourteenth Amendment to the Constitution:

All persons born or naturalized . . . are citizens of the United States and of the State wherein they reside. . . .

That did not help much. What would he the legal interpretation of "born"?

Our scientists have made synthetic silk, wool, rubber and other products that look, and feel, and wear like the genuine articles; yet they are not permitted to

lahel them "silk", "rubber", et cetera. Surely Vivian looked, and acted, and seemed like a normal person. But, in

following out the very letter of the law, must she be labeled a "processed person", a synthetic? The thought was ghastly. I thought of the Preamble to the Declaration of Independence. Let's

see, part of it goes like this:

unalienable rights. . . .

We hold these truths to be self-evident: That all men are created equal: that they are endowed by their Creator with certain

At least that would get away from the word "born," "Created" seemed much better. Certainly Vivian was "created," if not "born": and the elements from which a biochemist created her, in their turn, were created by the Creator. Vet all the elements of a robot

also are created by the Creator. This was not getting me anywhere. Incubables being comparatively new creatures, the Supreme Court had never

been called upon to decide their legal status. But if old Thomas Jefferson himself had to be brought into the picture, that appeal would be made unless Vivian were given full rights before recourse to that August tribunal became necessary. With that silent avowal. I turned off my light and went to bed, tired, puzzled, but determined.

Through my window I saw the light still burning in Vivian's room. I must have been turning her problems over in my mind for hours. What was she doing awake so late? Was Judith in there tormenting her with a lot of questions when Vivian should be getting her sleep? I decided to investigate.

HAD almost reached Vivian's room when I felt a tug at my dressing robe.
"Who do you think you are, prowling around at this time of night—Santa

Claus?" Judith hissed. "Well, this isn't Christmas!"

"Her light is still hurning. I decided

"Her light is still burning. I decid to investigate," I explained.

"I'll investigate," she muttered.
"I'll go along," I declared firmly.

Vivian was sprawled listlessly in a large chair, a pathetic little figure in the commodious nightgown Iudith had

loaned her. She smiled wanly.
"Wasn't the bed comfortable, dear?"
Iudith asked.

"Yes," Vivian replied wearily, "but I stayed there quite a while. I just felt like require about"

like moving about."

"You must go to sleep, child,"

Iudith said.

"I'm so tired, must I go now?" Vivian pleaded, looking at me. "Will you

go with me?"

Judith glared at me and doubt again began creeping into her face. Why can't women keep their minds made

up? I glared back at her.
Vivian shocked the scowls from our faces with three words:

"Where is sleep?"

CHAPTER IV

SLEEP by that name or by any other was a stranger to that strange little orphan of the test-tubes. We tried all the synonyms unavailingly, and I was amazed to learn how difficult of defini-

tion sleep really is.

I crawled into the bed and gave a creditable demonstration of a man yielding himself to the arms of Morpheus, including some rough, as well as polished snoring. This served to amuse

but not to enlighten our guest.

Vivian's innocent inquiry about the whereabouts of sleep, after all, was apropos. Wherever sleep may have been that night, it was indeed absent from the second floor of the Dunne domicile. We tried tucking Vivian in her bed, darkening the room, and letting nature take its course.

But Dame Nature scorned this angelic alien, or vice versa, and the darkness merely brought screams of terror. Darkness also was something new to Vivian.

Repeatedly the girl fretted for her oxydyne, so we called in our family physician. He arrived with his customary promptness and grumpiness. An inch of pajamas peeped from under

An inch of pajamas peeped from under one trousers cuff. "What's this nonsense about a child not being able to go to sleep?" old Doc Dooley demanded. "Why didn't you

try a bedroom slipper? They used to work wonders when I was a brat. When that wouldn't work, this would." He took from his bag a large bottle

He took from his bag a large bottle labeled "Castor Oil". "Bottle's empty but it has psycholog-

ical magic. Where is she?"

Doc Dooley has the bedside manner
of a police ambulance medico. He

stalked into the dimly lighted bedroom brandishing his ominous bottle. "Now, see here, youngster," he huffed, "I'm going to tell you a bedtime story. Once upon a time there

was a bad little girl who wouldn't go to sleep. So her folks called in a doctor and he poured about a quart of castor oil down her. See this bottle? "Er uln! M.m.m.m.

Little touch of fever . Stick out your tongue, youngster. M.m.m.m. . Hand me my stethoscope out of my bag, Zach . Now just slip the cover down a little . . Sa.-a.-ay! What kind of prank is this, Zach Dunne?" Vivian's strange story came out between Doc Dooley's questions and incredulous grunts.

"This isn't real!" Doc looked at me

"This isn't real!" Doc looked at me helplessly. "I'm going to wake up in the morning and realize this is just a

dream. But I'll send you a bill just the same!"

"But surely you knew about Neo Shaiman's incubables," I protested. "Yes, sure I did, but I always clung

to some skepticism. I guess I'm just an old-fashioned pill-pusher, Zach. I didn't believe he could . . . Well, I granted him the ability to create a person artificially, but I didn't believe he could produce one so near perfect as this—this child."

"Do you doubt she's a real incuba-

by?"

"No-o-o," he admitted reluctantly.

"I'm sure she is "

"Then how did he speed up her growth, make her a mature young woman in eight years?" I wanted to know

"I DON'T know what sort of quackery Shaiman uses," Doe said, "But accelerated development is nothing new. Basal metabolism can be increased . . Wait, I'll explain it in a different way. Growth, or development development's a better word—is just a series of chemical actions and reactions. You know that, don't you?"

"If you say so," I agreed.

"All right. These chemical processes—
metabolism, as we call it—can be ac-

"Talk American," Judith cut in.

"Keep your shirt on, Judy," Doc retorted. "Anyway, the medical profession uses these things to step up metab-

olism to normal when the natural functions are lagging. We don't try to rush nature into doing two years work in one —as that quack Shaiman, seems to be doing. The medical association doesn't recognize him," Doc finished contemptuously.

"Well, what about this oxydyne, Doc?" I asked. "Is it some kind of

Doc?" I asked. "Is it some kind of dope?"
"I don't know what it is. Most likely

a name Shaiman coined. I don't think it's a dope. She doesn't appear to be a narcotic case. No, I'm sure of that. The term—oxydyne—suggests oxygen and the last part of it suggests power." He stopped and rubbed his chin. "Now this is zoiny to be sort of deep.

You'll have to bear with me." He glanced meaningly at Judith. "No act of life, not even the batting of an eye, takes place without destruction of substance. If a muscle contracts, a part of its substance dies. This dead matter must be removed. It is done by

the oxygen in the blood. Oxidation, we call it.

"Now, growth itself is a continuous dying and rebuilding of tissues, new matter. This girl, growing twice as fast as a normal person, no doubt, requires much more oxygen. I imagine her oxydvae contains an oxywen concentrate."

"That's all very pretty," Judith interrupted. "But why doesn't Vivian ever sleep?"

Doc Dooley spread his hands in a gesture of impatience. "I've been waiting for that one,

Judy," he grunted. "And I can't answer it. Some scientists have always contended that sleep causes nothing, but is merely a result of certain functions and cessation of other functions. Then, if it causes nothing, it would seem unnecessary.

"Maybe Shaiman's out to prove it.

I don't know. I've never bothered my

head about sleep, except when some dim-witted client of mine gets me out of bed in the middle of the night." He looked at me acidly.

"Well, if you ask me, she needs it now. Poor thing," Judith said. "Why don't you give her something to put her to sleep?"

"LET me handle the medical end," Doe snapped. "Narcotism isn't restrul. It isn't really sleep at all. Anyway, how would she react to a drug I might give a normal person? I'm afraid to do anything. I'm just a Model T doctor, and I'm wary ahout tinkering.

with these late models . . ."

"You're a wkat?"

"Skip it. Model T's were before

your time," Doc said, closing his bag with an air of finality. "You'd better take her back down to Shaiman's voodoo shop. The gal's not just tired. She's sick. I don't know what to give her." "If you walk out of here now. Doc

Dooley, without doing something for this poor girl, I'll change doctors!" Judith threatened. "I'll never let you

"I know," Doc said. "You'll never let me operate on you again. Well, Judy, I've opened you up so many times I know your innards by heart, what there is left of them. I can get along without viewing the same scenery again."

Cajolery and threats were futile. Doc Dooley was adamant in his refusal to tamper with what he regarded as a biogenetic freak. He left, advising me again to take Vivian back to the lahoratory.

DOC DOOLEY'S decision filled me with dread. Must this helpless, lovable girl be returned to the laboratory to resume her role as Shaiman's human guinea pig? If she went hack, Shaiman

surely would not give her up. And he would take precautions against another escape. Of course, I might obtain a court or-

Of course, I might obtain a court orit der for her release; hut speculation over y Doc's ways of thwarting me caused me at to shudder.

A brave little whimper added to my dilemma.
"Do something Zach" Indith de-

"Do something, Zach," Judith det manded hopelessly.

"Tell Danny I want to see him," Vivian pleaded.

I phoned Laird's apartment but he

I phoned Laird's apartment but he was not at home . . . I decided to telephone Shaiman anon-

ymously, tell him I had Vivian in my care, explain her restlessness and ask him what I might do for her. I'd appeal to his sense of pity, or threaten him, or anything as a last resort.

I disconnected the viso-lens on my phone before calling. I regretted that this also shut out his image, as I wanted to see this sinister scientist. He answered immediately; and I felt

He answered immediately; and I left some gratification in the knowledge that the Dunnes were not alone in sleeplessness over Vivian's estrangement. Shaiman's piping falsetto did not fit the mental picture I had drawn of him.

"I'm not revealing my identity, Dr. Shaiman," I began calmly. "I have Vivian in my care and . . ."
"My baby!" he squeaked. "Where

"My baby!" he squeaked. "Where is she? Where are you? Bring her to me!"

"JUST a moment, Dr. Shaiman," I continued. "I have no intention of returning Vivian to your hideous laboratory. I'm calling hecause she is restless, ill. Please tell me something I can do for her."

"Bring her to me. I'm the only one who knows what to do," he demanded with genuine anxiety.

"You could send some oxydyne to

me by magnetic mail tube, couldn't you? I would have it in ten minutes." I would not give him my address but would receive it at a depot near my

would receive it at a depot near my home.

"You fool!" he shrieked. "No one knows how to give the oxydyne except

me . . . me and my assistants. Bring ber . . ."

"You could explain to me how to

"You could explain to me how t give it," I persisted.

I suspected he was delaying in order to trace the call. Let him try it. My phone was unlisted and, before he could wade through a lot of official red tape.

I could stop the tracer.

"And have you kill ber?" he shrilled.
"Listen, Shaiman, you may as well
reconcile yourself to her emancipation
from your hellish experiments. If you
don't ell me what to do for her, I'll call
in the best doctors in the city. They'll
find out what to do. And, so help me
God, I'll have the district attorney start
prying into every phial and tube in
our stinking workshoo before noon to-

day!"
There was a momentary pause and

his voice grew more calm.
"You sound like an intelligent man,"
he said, "Please try to understand this.
Compared with a normal person, Vivian's metabolic rate is terrific. The
water matter that results is poison that
must be removed rapidly. Your good doctors
can't do that, even with their oxygen

can't do that, even with their oxygen inspirators.

"Only my oxydyne will eliminate the poison fast enough and she must be here for her oxydyne treatment. Do

I make myself clear? Her life depends on it!"
"I'm not sure I believe it," I snapped.
"You've got to believe it, man!" His

voice grew excited again. "Poison is accumulating in her system. She'll die . . . my baby . . . After all these years I've

t spent . . . She's mine . . . You have no right . . . You kidnaper!" he habbled. t "She'll die—and you'll be ber mury derer!"

I grew sick. Weakly I cradled the phone and dragged myself back into Vivian's bedroom, where Judith was holding the girl's hand and rubbing her feverish forehead. Judith looked at me hopefully and made a feeble attempt

to smile.

Judith and I had never been blessed with a child. But as I gazed into IVian's pathetic, drawn face that just a few hours before had been so radiantly beautiful, I knew that if she wereren my own daughter I would choose death for her rather than return her to Shairan's sinister experiments. Shairan's last works dinned in my ears and I last works dinned in my ears and I

shook my head sadly.

Judith guessed my thoughts and tears
welled in her eyes.

"I'm taking her back," I affirmed in a dry whisper. And I swore silently to save this innocent girl, legally or extra-legally, even if I had to fight the

CHAPTER V

bitterest battle of my life.

Arrested Behavior

NEO SHAIMAN'S laboratory was a windowless third-floor loft in a decrepit, foreboding building. It was located on one of the old, narrow, onelevel streets in Manhattan's downtown

level streets in Manhattan's downtown manufacturing district.

The combination passenger and freight elevator was not running when

freight elevator was not running when we reached there in the gray husb-hour between dawn and daylight, so Vivian

and I had to walk up.

In spite of her weakened condition,
the girl made the climb more easily
than I did. Stairs are a real test for
old muscles and hardening arteries.

Before I could press the bell, a peepslot snapped shut and the heavy wooden door swung open. A smocked nurse stood aside as we entered. Shaiman was in a fuming frenzy, with another nurse trying vainly to placate him.

"My baby, my baby!" he cried in his creechy falsetto, hounding forward and embracing Vivian as a child does a lost toy. He habbled mingled expressions of relief and questions ahout her absence and her condition. She acquieaced languidly to his fondling and seemed mildly glad to see him.

Shalman was a small, faced man of inderentiate age, no taller than Vivindermitate age, no taller than Vivindermitate age, no taller than Vivindermitate age of the state of th

"Quick, prepare her hath," he commanded one of the nurses. Then to the other nurse, "Give her Sedative 2-B with her oxydyne and then call me."

other nurse, "Give her Sedative 2-B with her oxydyne and then call me." He led Vivian toward a door. She sorang away from him and ran

back to me.

"You'll tell Danny I had to come
back for my oxydyne?" she pleaded.

"Please come back and bring him."

Shaiman scowled. I promised and she went obediently with the nurses. Having ignored me up to this point,

Having ignored me up to this point, the scientist now whirled on me angrily. "And now," he hissed, his tongue flicking out like a cobra's, "will you

kindly explain this—this abduction?"
"I didn't come here to make explanations. I came to demand them," I gritted. "But I know nothing of an abduction. If there was one, I suppose Pm an accessory after the fact. She came to my office vesterday afternoon.

willingly enough, and told me she n wanted to get married . . ." e "Married?" he piped. "Why, she

doesn't even know the meaning of the

"I found that out; I was amazed. A full-grown young woman who had never been told about marriage. Nevertheless, she came to me and told me she wanted to marry Daniel Laird." "Laird... that Laird! I let her go

out with him. I wanted to check her emotional reactions, to see if she would react as a normal girl would in the company of a handsome young man. And the next day he came back and lured her away. Kidnaped her! And you . . . you . . . "

"STOP sputtering, Shaiman," I cut in harshly. "If you've any accusations to make, make them to the district attorney. It won't get you anywhere. Laird is an impeccable young man, and popular. I have some standing, myself. So your charges may backfire."

"Who are you?"

"E. Zachary Dunne, attorney," I said. "Just a puttering old barrister who can't quite make up his mind to retire. I have not figured in an important case in years, but I keep in touch with things. If I whisper a word into the district attorney's ear he will start probing into your hellish business so

quick it'll make your head swim!"
Shaiman's pallid face seemed to grow
a shade whiter.

"There's nothing wrong with my work," he protested.

"Oh, no?" I prodded. "I'll admit we're living in an age of rapid scientific achievements. Society is science-conscious. New inventions and discoveries have come so fast in the last few decades, people are beginning to accept them as a matter of course. But I'm not so sure society is ready to accept your test-tube creation of living, fleshand-blood persons."

"Accept it? Why, I've been carry-

ing on for ten years," he reminded me.

"I bayen't been molested."

"Carrying on quietly, yes. But your est—medical practice has never been made finto an issue for public sanction, or disapproval. News of your discovery came at a time when our country was threatness with revolution. A pooling the press and radio, had no time for seemingly fantastic claims of an obscure bio-chemist. Afterward, for your own rea-

sons. I suppose you saw fit not to publi-

cize your secret."
"I have not operated in secrecy,"

Shaiman declared.

"Call it modest retirement, if you prefer; that's not the point," I said. "This is an election year. There has been a dearth of publicity for the district attorney. If he makes a case against you, the newspapers will eat

it up; so will the radio.

"The medical association will denounce you. The pulpit will flay you as a meddler into the affairs of God. People, always quick to distrust what

they cannot understand, will condemn you."

"What wrong have I done?" be cried defensively.

"I don't know. That's what I intend to find out. For what purposes are you creating these incubables, Shaiman? What do you intend doing with Vivian? Whatever it is, I won't let you," I growled.

"Purposes?" he echoed. "Why, man, my incubabies still are children! Vivian is the oldest and she's not nine years old."

"Not according to the calendar," I admitted. "But biologically, a young woman. Now get this, Doctor. I'm no self-appointed defender of public morals and I don't care what you're doing with your incubables, except as far as that girl is concerned. I'm going to see that no harm comes to her. I mean it." "You like my little Vivlan?" There was pride in his voice.

"I do. I've known her less than a day, yet she has crept right into my heart. I can understand how young Laird fell in love with her."

A LOOK of disgust crept into bis face.

"How did you happen to use Laird to test her emotions?" I asked. "And what

did your little experiment reveal to you?" The last was a taunt I could not resist.
"I'm making an experiment for him,

an experiment in plastics. He is a handsome young man and I believed he would suit my purpose," Shaiman replied, becoming the scientist again. "We concealed a cardiagraph under

ber clothing. Laird knew nothing about it, and she thought nothing about it. Experiments are routine with her. When we examined the tape later we learned she had reacted normally." He shook his glossy head. "Too normally."

He reached into a desk drawer and pulled out a narrow ribbon of celluloid. He handed it to me. His telephone rang and I studied the tape while he talked. The track of the style ran a fairly even course down the center of

the tape, with an occasional side-step.
Then I noticed where the style had a veered far off course. And after yawing wildly for a short space it had skittered all the way off the margin. I

chuckled. I knew the meaning of those two violent disturbances recorded by the human seismograph.

the human seismograph.

A nurse entered as the scientist finished talking and told bim Vivian bad taken ber oxydyne.

"Excuse me, please," he said to me. Then, "No, come with me. I want to

show you something." He led me hack to a small, glassed-in

apartment where Vivian was reclining in an adjustable chair, listening to soft, soothing music. She was wearing a long house robe or gown. She looked much refreshed. When she saw us she stopped the music and skipped over to us, speaking to me first,

"Did you tell him?" she asked eagerly. "Why didn't you hring him?" Shaiman scowled.

"I haven't been away from here," I explained, "How do you feel, dear?" "Much better. You'll bring him

"Get your rest, Vivian," Shaiman said impatiently, "I'm showing Mr. Dunne around the lab." He called her nurse, gave some instructions in a low

tone and led me away. "You seemed anxious to get me away from her." I accused.

"She needs her rest. She has had too much excitement already," he replied, "I just wanted to show you she receives the best of care here."

"You didn't show me much," I grunted. "But she certainly doesn't look like the sick girl I returned to you half an hour ago. She's as fresh as if she'd had a good night's sleep. What is the meaning of her not sleeping? Why doesn't she ever sleep? How can she get along without it?"

A SMILE of condescension flickered at the corners of the scientist's lips,

"Sleep, as it is generally known, is the greatest impediment of an otherwise fairly well streamlined civilization. We spend eight hours a day in sleep. Think of it, one-third of our lives lost in unconsciousness! You're past sixty, I indge. Then at least twenty years of your life have been lost."

"But people can't get along without it," I declared.

"Can't they? Vivian does; so do some of my other incubables," Shaiman retorted, "Sleep is a deep-rooted habit, that's all. It is not essential. It dates back before the discovery of fire. When darkness came at night our prehistoric forefathers, unable to find their way around, holed up in a cave and slept. They formed the habit of resting their

bodies and minds concurrently. We have never broken the habit . . .

"Wait! Sleep is merely simultaneous resting of the conscious mind along with certain organs. That is not necessary. Rest is necessary, yes. But I have found no reason, beyond habit, that calls for the brain and other organs to rest at the same time."

"You mean they can rest in relays, or shifts?"

"Exactly," he said. "I have a planned routine for Vivian that gives every part of her plenty of rest. Her mind is resting now as she listens to soothing music. She is conscious but her mind is in a

There were other questions about sleep that puzzled me, but I decided to let my mental molars first gnaw a while on what he already had given me.

passive state, not active."

"And what is this oxydyne elixir?" I asked.

"It is my secret formula." Shaiman seemed ahout to let it go at that, then went on. "I told you earlier over the telephone enough for you to know that oxygen is its principal ingredient. I have nothing to lose in telling you still a little more."

Vivian, dressed in a gym suit, stepped out of her little apartment down the hall, waved to us and trotted around

"All people-all animals and plants, in fact-grow in rhythms, or cycles,"

Dr. Shaiman continued. "They grow for a span, then growth ceases for a while, then growth resumes. Over and over again. Growth is not simply expansion, like the inflation of a balloon. It is a dying of matter and formation of new matter—metabolism is the scientific term.

entitic term.

"The dead matter hecomes a poison which must be eliminated. That is done by oxidation. The poison is carried away by oxygen in the blood. Normal persons receive enough oxygen through their lungs for this purpose."

VIVIAN jogged back around the corner, marked time a few beats, and trotted away again.

"Vivian, there, is growing continuously. That is why she is practically mature at the age of nine. But she cannot absorb enough oxygen through the lunes for adequate oxidation. Even

ciently because, after all, the lungs will absorb just so much. "So I had to devise another way of giving the oxygen. I mix it with artificial haemoglobin—haemoglobin is the

ficial haemoglobin—haemoglobin is the oxygen-carrying agent in the blood and give the mixture intravenously." "No!"

"Yes, I inject it into the veins," he repeated. "And I can do this without leaving hypodermic pit marks. I will have to continue these injections until I let Vivian's metabolic rate drop down

to normal."
"You can do that?" I gasped. "I
mean. let her be normal?"

"And why not?" There was that flicker of a smile again. "I'll simply stop giving her a development accelerator, which is just a slight improvement over the thyroxin your doctors have used for many years. Yes, in just a few weeks now, a couple of months, I will let her become normal in that respect." He started back toward bis office. "You were going to show me around

the laboratory," I reminded him.
"That's what I said before Vivian,"
he said, looking at me queerly, "You

admit you came here spying on me, yet you expect me to show you everything cheerfully. But all right. Maybe you will change your malicious ideas about my work. I have shown others; I will show you."

CHAPTER VI The Scream

e Scream

I WAS beginning to wonder if my suspicions of Neo Shaiman were welltounded.

We turned back and started down the long corridor. As we passed a door a hoarse, blood-chilling scream stopped

cannot absorb enough oxygen through the lungs for adequate oxidation. Even oxygen inhalators could not aid suffioxygen inhalators could not aid suffi-

this way."

"But there was terror in that

scream," I protested.
"Just one of my patients having a

nightmare."

I followed him, my suspicions returning. He opened a door and pointed to

what appeared to be a small glass showcase on a table. There were a dozen or more such cases in the room.

"Here is where I create my babies," he said. "These are incubators." In the center of the case was a shape-

less pouch that seemed to be made of cloudy cellophane. I studied it silently. "What's that thing that looks like dirty macaroni, leading from the pouch

y to that glass bulh at the end of the
- case?" I asked.

"The foetus gets its nutrition through
it." he explained. "I suppose you

it," he explained. "I suppose you would call it the navel cord." "Oh."

"That glass bulh is where we put all

the chemicals necessary for the baby to develop," Shaiman continued.

"Chemicals?" I suppose my voice registered surprise.

iron, lime, oxygen, all of our elements are chemicals. All matter is chemical." "But what about its blood. Doctor.

where does it get its blood?" "It makes its own, just as a natural

baby does," he said. "A natural baby makes its own blood?" I marveled, thinking of the foe-

tus before birth. "That isn't a secret, All doctors know it." He seemed amused. "You think a child inherits its father's and mother's blood? Well, it doesn't. I don't deny there's such a thing as heredity, but it is not through the blood, Not one drop of a parent's blood-either

parent-ever flows in a child's veins." I glanced at the only other thing in the incubator, a thermostat which kept the temperature at body heat.

"Is that all there is to it?" I asked in disappointment. "What were you expecting to see?"

he laughed. "I don't quite know," I admitted. "Maybe that, or maybe something like an assembly line in a doll factory, where arms are fastened on bere, legs there, and so on. Have you any other-erbabies in advanced stages of development 27

"You wouldn't see any more than vou've already seen," Shaiman said. "But wait. Yes, I have. There's one ready for what you might call birth."

HE led me into another room where there was a lone incubator. It was the same as the others but the membraneous pouch was stretched tight over a well-formed baby. I was reminded of a contortionist I once saw crammed into a small trunk.

"Looks like it's going to be an Indian." I observed.

"Far from it. They're all red at first," he declared. "By rights, this "The pre-digested food. Calcium, fellow will be fair-complexioned, blueeved and red-headed, just like his famous mother."

"Mother? I thought . . ."

"Some of my babies are purely creatures of science. Vivian is one. Some are parthenogenetic, which means fatherless. They are the results of artificial breeding.* But this baby was conceived naturally, having a real father

and a real mother. "The mother is too busy being a great actress to have a baby naturally, so we employed special means-and there it is. I'll present the new-born baby to her in a day or two. That is an important part of my work - being a stand-in' to assume the dangerous and inconvenient part in the rôle of motherhood. The baby will be bottle-fed, of course but most of them here are now

anyway." "Have you any other older babies?" He led me into a nursery where there were several children

* This, to us, would mean that much-publicized method of creating babies in a test-tube. Dr. Shaiman is obviously creating infant life in three separate ways; synthetically, through chemicals; parthenogenetically, through artificial fertilization, and by incubation of the life processes. For many years scientists have striven to re-

create the miracle of birth. A certain amount of success has attended a few individual efforts, where amorba-like forms were artificially developed. These plasms showed many evidences of actual life, except one; they were incapable of reproduction, the acid scientific test, However, it is only through such experimenta-

tion that science hopes eventually to discover the miracle of life. At the present time, these experiments are not going ahead very generally, science being more concerned at the moment with The most famous forms experimentalist on the

development of living tissue is Dr. Alexis Carrel, of the Rockefeller Institute for Medical Research. His development of new techniques for the cultivation of tissues in uttro-"in glass"-is recognized as foremost in its field.-Ed.

"These are twins," he said. He pointed to a girl who seemed about ten. putting shoes on ber baby brother.

"They're what?" I gasped. "They aren't really twins," he ad-

mitted. "We took them from their incubators the same day, so we call them twins. The girl's development has been accelerated, the boy's is normal. They

are five years old." From somewhere in the laboratory came a repetition of the spine-tingling

scream that had startled me earlier. It was the deep scream of a man. A man's scream isn't nice to hear.

"There it is again!" I shuddered.

"There's something wrong here, Shaiman. What is it 217 Unperturbed, he nodded toward a

door. "Come with me." We went into a small room that

smelled of chemicals. Shaiman paused before a door and placed his finger to his lips in a signal for silence. Tip-

toeing, he led me into pitch darkness, I was tempted to turn back. I forced myself on. As my eyes grew accustomed to the darkness, I saw the silhouette of a man seated in front of a large glass panel which glowed dully. The panel

was set in the wall of a smaller room. Nearer, I saw the panel was a fluoroscope in which I could distinguish the skeleton of a large person tossing restlessly on a bed.

"How has be slept?" Dr. Shaiman whispered.

"All right for nearly two hours," his assistant replied. "Had a nightmare at 3:35 that lasted two minutes. Another started just a few minutes ago. He's coming out of it."

"He looks like a skeleton wearing a black sarong," I commented.

"THE 'sarong' is made of fabricated lead. It keeps out the rays," Shaiman explained. "I've taken bim off his rest routine and am trying to teach him to sleep. He doesn't take to it kindly. It's just an experiment." Shaiman felt along the wall and

snapped on a dim light in the inner room. He rapped lightly on the door. Through the glass wall I saw the man raise himself on the bed. Shaiman knocked again and snapped on a brighter light. We entered. A huge. hairy, swarthy monstrosity tumbled out of bed and stood blinking drowsily

at us with small apelike eyes. "How did you sleep, Bruno?" the doc-

for asked "It was terrible!" Bruno declared in

a raucous basso that seemed to have been ripped from deep in his stomach. "Please don't make me sleep any more, Dr. Shaiman. I don't like it." Although hoarse, the plea was like a

childish whimper. Surely this could not be an incubaby. I thought. No accelerated development could, within ten years, produce a

six-and-a-half foot, hairy giant with beard stubble that made his face a bluich black "Nonsense, Bruno," Shaiman chided him. "You'll get used to it and you

won't see awful things. What did you dream this morning?" "I had a girl a beautiful girl but

some men took her away from me, I killed some of them." he boomed, drawing his muscular figure into a fighting crouch. Then be relaxed and wagged his head sadly. "But there were too

many of them." "You had two dreams, Bruno. What

was the other?" "It was the same. It's always the

same since you've been making me sleep. I always have a pretty girl but something or someone takes her away

from me. I don't like to sleep." "Those dreams will cease after you get accustomed to sleeping," the doctor

soothed, "Go ahead like a good boy and learn to sleep. Then I'll let you play with Vlvlan. Remember Vivian.

the girl I pointed out to you recently?" Bruno's small eyes lighted and he inbaled audibly. A tremor traveled over his big body and he spoke excitedly.

"I'll try, Dr. Shaiman, I'll try hard. I'll go right back to sleep now, if you want me to."

"No, not now. You have your studying to do."

CHAPTER VII

Bride of the Beast

RACK in his office, Dr. Shaiman explained that Bruno was his second oldest purely artificial incubaby. He had started producing Bruno soon after Vivian became a thriving infant. Bruno now was almost eight years old. "Incredible!" I ejaculated. "I've never seen a full-grown man as hairy as be. His wiry beard, his deep voice . . . what makes him so dark?"

"After Vivian turned out to be such a fair, pretty baby, I supposed all of my babies would be the same. But Bruno is swarthy. Control of pigmentation was a factor I had overlooked in both cases I was simply fortunate with Vivian.

"I was too eager to produce a male to consider any other factor," the doctor continued. "Since Dr. Amos Sherman produced a kitten by artificial conception back in 1939, all parthenogenetic offspring had been females. The element which determines sex - we know it as Y-chromosome-must be supplied by the male parent. But when there is no male parent, or as in Vivian's case no parent at all, the offspring inevitably would be female."

"Listen, Doctor," I interrupted "The way you talk, the world could get along without us men."

"Biologically, yes," he sald impatiently. "But I wanted my second incubaby to be a male. I could baye obtained the natural Y-cbromosome, of course, but that wouldn't have been exactly cricket. So I infused a bit of testosterone, which strengthens male characteristics in a person. I hoped its influence would be strong enough to determine sex. It worked,

"I'm not revealing a secret. Physicians have used testosterone for years. My application of it may not have been strictly unique. It could have been used, probably, to predetermine the sex of natural babies. I may have used an overdose when I created Bruno. He seems to have too much masculine vigor. However, I can temper that after I have

made the important experiment." "What is that?" I asked.

"With Vivian." he replied. "What?" I bellowed. "Surely you don't mean . . ."

"Of course I will," he declared. "How else could I know whether my two artificial beings can reproduce normally? I'm simply waiting a few

months for Bruno to mature more." "You will not!" I barked. "I'll get a writ of habeas corpus and take her away from you. I'll have you jailed, you inhuman fiend! I'll . . ."

Anger surged into his pasty face. "Stop this pettifoggery!" be choked. "I'll not have you interfering with my

work. Get out!" I was never a nugnacious man, yet, even at my age, my fingers itched for the feel of his throat. I moved toward him.

CHAIMAN snatched open a desk drawer and whipped out a pistol.

"Get back, you meddling shyster!" he shricked, leveling the pistol a foot from my stomach. Shyster, indeed! "Do you think I'm going to let you hinder my experiments?"

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Shaiman would pull the trigger. In his own warped brain he was defending his science. Even according to our laws. he could be justified in killing me. I was a trespasser. Slowly I backed toward the door.

"Open it and get out." he ordered. There was nothing else to do. The

door slammed and I stood outside, wondering what to do next. I could call the police, but they could not raid a man's business simply on my charge that he

was planning something wrong. Perhans I had better wait until I could cool off and think things out clear-

ly. Vivian apparently was in no immediate danger. Shaiman had said he wanted to wait until Bruno was a little older.

The peep-slot opened and Shaiman's eyes glittered through it. "Go away and leave me alone," he

face. I was feeling better when Daniel hissed. "Your laws can't touch me, Mr. Dunne, I can do as I please with my children. Legally they don't exist. If you annoy me, I could even destroy them. Yes, I created them! I can de-

stroy them!" The slot closed with a snap.

I WENT to a quiet restaurant and dawdled over breakfast and a morning paper for an hour. Then I went to my office. It looked strange. Patricia had not yet showed up, of course. There

was no mail on my desk. The long leather settee looked inviting after my harassing night. Patricia

woke me when she arrived. Sketchily. I told her of my trying night with the sleepless Vivian; about the naive child-woman's walking innocently out of the bathroom, utterly naked, to confront me and my wife and ask for her oxydyne; about the accelerated development that had made a beautiful woman of her in nine years.

Patricia's incredulity changed to speechless horror as I told about the monstrous Bruno and Dr. Shaiman's hideous plan. "But I'll stop it!" I vowed. "Some-

I was not sure what I could do. The police had no right in the case until after the crime had been committed. I shuddered. I probably could take the girl away from Shaiman with a writ of habeas corpus. But what good would that do? She could not live without her vital oxydyne, and Shaiman alone

knew its secret formula. I could get a court order restraining

the man's further experiments with Vivian. But I had little hope this cold scientist would heed such an injunction. My spirits were low indeed. I went into my lavatory, took a half drink of whiskey and dashed cold water in my

Laird arrived a little later. He bounded through the door and swept the room with a glance.

"Where is she?" His face showed disappointment.

"Er-sit down, Dan," I stalled. "I couldn't have her here right now. I--er-there's something to explain."

HIS disappointment changed to anxiety but he waited for me to continue.

"Dan, not as a lawyer but as a friend of your father," I said, "I want to ask what you know about Vivian. Do you

really want to . . ." "Don't torture me, Mr. Dunne," he demanded. "What happened to her?"

"Calm yourself. Nothing harmful," I assured him. I could not bring myself to tell him immediately about the experiment Dr. Shaiman planned. "I had to return her to the laboratory,"

"Wh-a-a-t?" he bleated. "Take it easy now, son," I soothed. "Away from the laboratory Vivian was like a fish out of water. You knew she was an incubaby?"

"Yes, but that doesn't matter,

want . . ."
"But do you know how old she is.

Dan?"
"What does that matter? Sh

"What does that matter? She's young enough for me."

"Too young, possibly," I declared solemily. "She is just eight years old." "This is no time for joking, Mr. Dunne," Laird blurted, leaping to his feet. Mentally I compared his trim, athletic five feet and ten inches, crinkly dark hair and earnest blue eyes with the hideous Bruno. Again I shuddered.

"Listen, Dan, do you remember when Dr. Shaiman discovered his secret for creating incubables?"

He frowned in thought for a moment.

"No, not exactly."

"It was the year a revolution in this country was narrowly averted," I said significantly.

His brow furrowed. "Let's see. That was my second year at college. The whole varsity aero-polo squadron stood ready to enlist in the government service." He was counting back on his fingers. "Good Lord!" he gasped, slumping back into his chair. "Not even ten vears."

"Right," I said. "Vivian is not quite

nine years old."

"But, Mr. Dunne, she's grown. I— I kissed her," he declared, reddeniug. Then tenderly, "Twice. And she kissed me, too."

"I know. She told me, and I saw cardiagraphic proof of it," I announced.
"Biologically, she is as old as she seemed to you. She is the result of accelerated development. But, according to our calendar, she is not yet nine."

to our casendar, she is not yet nine."

He stared at me in bewilderment. I

told him everything that had occurred
in my home the night before and all that

I had learned that morning in the laboratory, excepting, of course, any mention of Bruno.

 Laird continued to stare in helpless amazement.

"You just met her two days ago, Dan," I continued. "Is your feeling merely protective, or , . ."

MY phone buzzer interrupted me and Vivian's face, her eyes wild

with terror, flashed in the photo-dial.

"Help!" she screamed. "Bring . . ."

I dropped the phone and followed Laird, who already had bolted out the door. "Police! Shaiman's laboratory!" I

yelled at Patricia as I ran through the outer office. As Laird and I leaped into a taxycle,

I showed the driver my card.

"Life or death, son. Step on it! I'll
keep you out of trouble."

The driver hesitated a moment, then gave his motor the gun. He increased his speed as I urged him on. "Ignore traffic lights." I implored.

flashing a greenback in front of his face.

He raced to beat a changing light at the next corner but was a split second late. He swerved wildly to miss the tide of traffic and whizeed on, blatting a tattoo on his horn. At the next corner I threw my arm in front of my face and held my breath, as he plunged into a

seemingly unbroken stream of crossstreet traffic.

If He skidded dizzily, lurched again, sideswiped another taxycle, but kept his wheels under him and sped on down he avenue. How that man could drive Lights were with us at the next cor-

Lights were with us at the next corner and we raced through at increasing speed. There was a shrill traffic wistle behind us, and the driver glanced anxiously into bis mirror. A traffic officer h a d commandeered another taxyle and was giving chase. "Let him overtake us." I ordered. The officer drew alongside. "Where's the fire?" he braved.

"Lead us!" I shouted. "It's life or death!"

He hesitated. "It better he," he harked. Then to his driver, "Step on

it!" Laird had not spoken a word. He gripped the sides of his seat grimly as we sped southward, the two horns and the officer's whistle shricking a warning. I felt guilty and sick as I glanced out of the corner of my eye at his anxious face. To me. Vivian's frantic phone call meant just one thing. Shaiman, fearing I might take immediate legal steps to interfere, had de-

cided not to delay his diabolic experiment. Experiments were routine with Vivian. Her life was just one unending series of experiments under Shaiman's observations. She had come to accept them as we accept the weather. And yet, she had balked at this, her creator's

supreme experiment Shaiman had shaped her education so that nothing contrary to his purposes was included in her curriculum; yet today she must have sensed undeniable wrong in his instructions. She had a conscience-a soul! Neo Shaiman had created her with his cold laboratory magic, but the Great Creator had breathed His undwing spirit into her. If she could just resist until we got there . . .

"More speed!" I yelled at the driver. He gave me an exasperated look. His

motor was wide open. "Left . . . next corner!" Laird bellowed, "Then stop,"

TIRES screeched as we skidded around the corner and braked to the curb. Our escorting traffic officer sped straight ahead in his cycle. Laird leaped to the sidewalk and sprinted into the building where the laboratory was located

"Wait on the corner for that officer to turn back," I told the driver. "Tell him to hurry to Shaiman's laboratory in

this building. Third floor." Police already should be there, I thought if Patricia understood my parting message. I did not wait for the slow elevator hut labored up the steps as fast as my creaking old legs would carry me.

Laird was pounding futilely on the heavy laboratory door. I remembered seeing an open door to a janitor's room on the second floor and dashed hack, hoping to find something heavy with which to batter down the laboratory door. I found a stepladder and hauled it upstairs. We used it as a hattering ram and hroke the heavy door's lock with the second thrust.

I tripped and sprawled with the ladder on top of me as young Laird burst into the office. Shaiman was flattened against a wall, gripping his pistol unsteadily. He was too terrified to pull the trigger. He dropped the pistol and tried to run. Laird seized him by the lapels of his coat and jerked him clear

of the floor. "Where is she?" he growled.

His question was answered by Vivian's scream somewhere in the rear of the laboratory. It was shrill and filled with terror. Laird flung the doctor aside and charged toward the back of the huilding.

"No. you don't!" I shouted as Shaiman tried to retrieve his pistol.

I had untangled myself from the ladder, and I reached him in a limping

lean before he could pick the gun up. We went down in a grunting, gasping huddle of unresilient hones. I succecded in grabbing the weapon, and I displayed commendable restraint in my excitement by tapping him lightly on his glistening head. He slumped down fore I hear peacefully. me . . .

peacefully.

Other incubables, frightened by the
disturbance, set up their wails and the
place became a bedlam. I could not
distinguish Vivian's screams above the
others. I limped to her tiny apartment.
She was not there, but an overturned
chair and one dainty slipper in the middie of the floor told me she had fled from

the room in panic.
"Vivian! Vivian! Danny!" I shouted at the top of my lungs, but I could not make myself heard above the mad caterwauls throughout the place.

A terrified nurse crept cautiously out of one of the incubator rooms, caught a glimpse of the pistol in my hand and added her voice to the general cacophony as she dashed toward the front office.

I TRIED to find the door leading toward Bruno's apartment, but the place was a confusing labyrinth of corridors and doorways. Suddenly a hoarse bellow of rage led me to the end of a hallway. I plunged through a door, just in time to see Laird pick himself up from the floor and stagger weakly toward the towering Bruno.

The enraged glant swept him into a bairy embrace and squeezed him until Laird went limp with a tortured grunt. Bruno dashed him to the floragain, then bared his teeth in an animal snarl as he started toward me. I aimed at his chest and fired. He merely jerked, as if seized by a violent hiccup, and continued toward me.

I began shooting as fast as I could squeeze the trigger. All lights in the place went out. I continued to shoot until I heard the hammer fall with a sickening click. Then I stood frozen to my tracks in the darkness, waiting for the brute to seize me.

I waited interminably, it seemed, be-

fore I heard a heavy thud in front of

I could hear policemen now at the front of the laboratory. Their flashot lights split the darkness like groping

the fingers.

"Back here!" I managed weakly.

"Back nofficer hurried down the hall,

id-shoving the cringing Neo Shalman in

An officer burried down the hall, shoving the cringing Neo Shaiman in front of him. A flashlight found Bruno, who was seated on the floor, arms hugging his bleeding stomach and his face twisted in pain.

"My baby!" Shaiman cried, stumbling to Bruno and cradling the shaggy head in his arms.

"Quiet, stop that bawling!" a lusty Irish voice bellowed at the incubables, and, strangely, the walling subsided throughout the place. Somebody located the master switch and turned on the liebts.

Vivian, who had emerged from a corner where she bad been crouching in terror, was sitting on the floor with Dana Laird's head in ber lap. She was dabbing at his bleeding face with the hem of her tattered cotton robe.

of her tattered cotton robe.
"Danny," she coord
softly. Laird merely blinked foggily.

"Always ... same dream," Bruno groaned painfully through blood-flecked lips. "I ... have pretty girl ... but

... someone ... takes ..."

His huge grotesque body jerked convulsively, then went limp.

One policeman took off his cap and crossed himself. No one spoke. Shaiman sat there with tears streaming down his cheeks as he held Bruno's lifeless head in his arms.

A thin, muffled wail sounded elsewhere in the laboratory. Shaiman cocked his head attentively and blinked, making me think of a tearful little bird. Gently he let Bruno's head rest on the floor. The wail sounded again, more

ungent.

"Why he . . . he must have ruptured his pouch!" Shaiman cried, hastening out of the room.

In a few moments the scientist returned with a red, wrinkled, squirmy, gurgling bundle of humanity in his arms.

CHAPTER VIII

THAT should be the end of my narra-

tive. In one eventful day a Shaiman incubahy had breathed its first; another breathed its last; another was married.

Refere the sun set that day a judge.

But there is still another episode.

Dr. Neo Shaiman loved his incu-

babies in his queer way, and he was especially fond of his beautiful hinon "first child". But he quickly reconciled himself to the loss of Vivian and did his utmost to make her comfortable and happy. He furnished oxydyne and assigned his most capable nurse to attend her until her metabolic rate dropped to normal.

He refused to accept money for the oxydyne or even for the nurse's salary, probably regarding this as his wedding present.

The honeymoon, of course, was an unusual one—husband, wife and nurse. Vivian was "weaned" from her oxydyne without difficulty, but readjusting her rest routine seemed an impossible task.

She gave up trying.

She still never sleeps. In fact, watching her retain her vivacity and grow firmore and more beautiful has led Dan Laird to try the sleepless rest routine

himself. I heard later that, except when pressing business disrupts his schedule, he is able to go for days without sleep. Some of their friends, too, are trying it with encouraging results

With Bruno out of the way (I must confess I have never felt any deep qualens about his death) and with Vivian safely married to a fine young man, I saw no reason to swear out a warrant against Dr. Shaiman. if indeed

warrant against Dr. Shaiman, if indeed I could have found valid charges. The police had assumed the whole trouble was a mad monster running amuck. I let it go at that. Shaiman seemed to appreciate my at-

strude and became quite (riendly, serval times he invited me to witness some amazing phenomenon. About a year after tate eventul day in the laboratory, I received a telephone call from high set as was entering my office. From his excited babbling, I gathered at once. Wondering what new scientific magic he had wrought, I hurried there without even waiting to glance at my wastern to the control of the property of the control of the control

I found him in one of his incubator rooms, strutting proudly as he chattered at a nurse.

"Read it!" he squeaked, thrusting a telegram at me.

Seven-pound boy born naturally last night. Vivian and baby doing nicely. Birth

certificate reads Daniel Neo Zachary Laird.

—Daniel Laird.

"Vivian isn't going to let her haby suffer from a scarcity of names, as she

herself did," I chuckled.

"Born naturally," Shaiman cackled triumphantly. "And I'm a grand-

father!"
"You?" I snorted. "I'm the grand-

father. Didn't I adopt her legally?"

FIFTH COLUMN OF MARS (Continued from page 27)

(Continued from page 27)
ize the significance of what had happened. Then it came home to him, with

a savage, exultant thrust. He had won. Won! Thordon and Carson were both out, weaponless, powerless.

"We licked 'em, Gurnwald!" he shouted. And the shout died in his throat.

For through the door on the opposite side of the room a line of guards was charging. Standing beside the door---was Betty Phillips 1 She had admitted these guards to the lahoratory. She

had called them.

He hadn't won! He didn't have a chance. Weaponless, with only his fist to fight ten or fifteen brawny guards armed with swords! A choked curse

burst from John Keenan's lips.
He had lost. Again Betty had be-

trayed him. The girl he loved had called the guards!

Keenan squared off to meet them. Fists against cold steel. He would go down like a stuck pig. But after what Betty had done, he didn't care. He saw Gurnwald move. The Mar-

tlan was not dead, then. Even that did not matter. It would not be long before Gurnwald was dead.

It was not until Gurnwald, crawling painfully across the room, seized the light projector unit Thordon had dropped, and turned it full force on the first guard in line, that Keenan realized that he himself had a chance to live, after all

Lights swirled around the guard. The Martian froze. He toppled to the floor. Gurnwald, using the light projector like a fire hose, turned it on the line of guards.

"Give 'em hell, Gurnwald!" Keenan roared. "Pil be with you in a second." He grahhed the pistol Carson had

dropped. It was empty, but a quick search of the pockets of the enemy agent revealed two clips of cartridges. He shoved one clip into the pistol.

He shoved one clip into the pistol.

The gun thundered. A charging guard sprawled and went down. The

h gun roared again. Another guard died.

Thordon's men might have faced the weapon Gurnwald was using. They

weapon Gurnwald was using. They knew what it was. It might kill, hut usually it merely rendered a person unconscious for several days.

THE pistol was another thing entirely. They had never seen a pistol. Nor had they ever heard one. The roar of the explosion shattered their nerves. They hroke. They field. Betty saw them start to run. She tried to rally them, giving an exhibition of desperate courage that in other circumstances Keenan would have admired. But she failed. And Keenan grabhed her.

"I told you that you had a payoff coming," he said hitterly. "Much as I hate it, I'll see that you stand trial for

reason."

"Let go of me!" she jeered. Then she
went limp in his arms. "Why don't you
fid give up?" she whispered. "It's the only

chance you've got to save your life."
"Like hell it is!"
"But you're surrounded. You'll never get out of this laboratory alive. There

are hundreds of guards outside. They'll be back."
"Not while I've got their bosses, they

won't be back!" Keenan growled.
"But you haven't got their bosses.
That's why I'm trying to ask you to
give yourself up. You haven't got

Thordon and Carson. While you were fighting the guards—they escaped." "What?" Keenan whirled.

Carson and Thordon were gone. Apparently one had recovered from the effect of the blow and had dragged the other from the room. With the two conspirators outside to organize the fleeing guards, John Keenan was trapped. Gurnwald staggered to bis feet.

"Nice fight," his feeble thought came. "Too bad-we lost."

He fell forward, dead. "We haven't lost - vet!" Keenan

gritted. "Wh-what are you going to do?"

Betty quavered, as he slammed and locked all doors leading to the room. He gestured toward the projector in

the middle of the laboratory. "You see that thing? It brought us here. I'm going to use it to take us

CHAPTER VI The Final Blow

back!"

her.

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HEAVY blows were already sounding on the doors of the laboratory when Keenan mounted the steps to the projector. Light was blazing from it in a steady stream. He had found a map in the room, a map of the U.S.A., and had discovered that the projector was already focused. Everything was in readiness. Betty Phillips, her arms and less burriedly tied, was in his arms, He was taking no further chances with

Perspiration stood in beads on his forehead. He looked at the light, swirling in a giant stream upward. He hated to face that column of cold, engulfing radiation again. He hated to face the space across which it would hurl him But most of all he wondered if he had miscalculated. If he had-

Blows sounded again on the door. He stepped into the light, Betty Phillips still squirming in his arms.

It caught him, froze him, whisked him upward. He did not try to struggle against it. And this time he found he retained some small measure of conscionsness

Out across space they raced. The darkness of the void was all about them. Ahead was a blacker object, a great globe, growing so rapidly that Keenan could see it increase in size.

That globe was Earth, as seen from the dark side.

Keenan's mind was a turmoil of mad suspense. Had he miscalculated? Had

he made one single mistake? One mistake, and everything he had fought for would be lost!

The Earth rushed at him Then the rush slowed. The telescopic light deposited them

in a court between two buildings of one of the largest powder manufacturing plants in the United States. John Keenan felt the ground under his feet again. The light released him. It faded out.

And as it faded, there came, from some unguessed distance, a thumping thud, It was not repeated.

John Keenan sighed. He looked upward. There in the night-time sky he saw - the red planet of Mars. It gleamed like a huge eye in the heavens, a watching, waiting eye. Keenan collapsed.

SURPRISED GUARDS-and there were guards at every industrial plant in the country, after all the mysterious explosions that had taken place-found them. Men with fixed bayonets sur-

rounded them "Who are you?" a lieutenant harked. "Where did you come from? What was that light? What's this all about?

Are you trying to blow up this plant? Speak up, and be damned fast about "I'm John Keenan," the Federal agent answered. "I want you to take this woman into custody. She's charged with treason. I'm John Keenan, of the F.B.I. Here's my badge." He fumbled for the tiny golden badge of the Federal Bureau of Investigation.

He didn't find it. It was gone!
"I'm Betty Phillips," a girl's voice

"I'm Betty Phillips," a girl's voice spoke. "I'm an agent for Military Intelligence in the War Department. Here's my hadge. I want you to arrest this man"—here her voice hroke—"for impersonating a Federal officer—and for treason."

She was crying when she finished speaking. And John Keenan was rising

to his feet, incredulous.
"What!" he shouted. "Betty! Is

that the truth? Are you really a Military Intelligence operative?"
"Yes," the girl walled.

K EENAN'S shout was an exultant roar. "And it's just my luck!" Betty Phillips—an agent for Uncle Sam! That explained at least the shadows in her background.

"Get me to a telephone1" Keenan shouted. "There's a mess here that has to be straightened out quick."

To straighten out that mess kept the wires to Washington hot for several hours. Finally the truth came through. The War Department and the Department of Justice, in which the F.B.I. is as distinct hureau, are two separation coming into the F.B.I. indicated branches of the government. Information coming into the F.B.I. indicated Betty Phillips might be an enemy agent John Keenan had been assigned to vestigate her. Instead, she had been a Militaria Violidience operative!

Afterwards — "Then I wasn't really on the spot in that night club," Keenan groaned. "Carson and his two men just happened to come in there. When they saw me slipping out, they got curious and followed. Betty, darling, how can you ever forgive me! I thought you had out me on the spot!" ered. "When Carson showed me the G-man hadge he was wearing on Mar-I didn't know it was your hadge that he had stolen while you were unconscious. He told me he was a G-man and that you were a spy. That was why I tried to warn him, why I betrayed you. I believed him. I just couldn't help it--"

"How can you forgive me?" she quav-

lieved him. I just couldn't help it—"
"You don't have to ask to be forgiven," Keenan answered, grinning.
"After we've hoth slept for a week, I'm

coming to see you."

She changed the subject.

"But what about Thordon and Carson? They're still on Mars," Betty remioded him. "And with that horrible light projector, they can continue sending bombs to Earth. What can he done about them?"

Keenan sohered. "We don't need to worry about them."

"What do you mean?" Betty persisted.

"You remember, just after we landed in the munitions plant, a thumping s sound seemed to come down the light heam?"

Betty nodded.

"You also remember there was a huge homb in the light projector?" She nodded again. "Well, I took that bomb out of the projector and fixed it so it would explode when anyone entered the lab. That thumping sound was that bomb going off hack on Mars. We don't need to worry any more about Carson and Thordon. That homb blow those two fiends and their lab to kingdom come!"

Betty was silent. John Keenan put he arm around her. They were in the office of the munitions plant now. He led her through a door. Outside the dawn was near. A great red planet was sinking in the west. And with it was disappearing forever the fifth column of Mars.

SPORTS OF

by Leonord Gipson

Records are constantly being broken in the world of sports. Can this go on indefinitely? Will athletes of the future become supermen?

So you think Chuck Venske, Jesse Owen and Joe Louis are hot stuff in the world of sports? There'll never be another man like Owen, ch? And certainly not

orner man use Owen, en? And certainly not another bruise like the Brown Bomber?

Brother, as the saying goes, "you sin't seen nothin' yet!" Not even if you've seen Venske in action against that Kansas Kingpin, Glenn Cunningham. Believe it or not, the sports records now standing in this year 1940 will be pale pygmies in comparison with the year 2000 A.D.

THE RACE IMPROVES

War, famine, revolution and the Russian OGPU to the contrary, the stock of the human race continues on the upward trend. Despite everything, man's life expectancy today is greater than it ever was. Physical resistance, built up through hundreds of generations, can better cope with disease—if not poison gas. Minds are keener, more streamlined.

Yes, sir, your man of the 20th century you be a half-Neanderthal brute, but he has better dental care, doctors are learning how to prescribe for him, and the chances are that he will live beyond the agelimit of his huskier grandfather. The chances are, moreover, that in his

own lifetime new sports records will be set such as Grandpa would have thought impossible, much less conceivable. THE AWFUL TRUTH

The fact of the matter is, we're getting faster. Take, for instance, the Penn Relays. The same meet has been held in the same stadium for decades—yet all records have been shattered within the past four

Likewise is this true of the Drake Relays, the national collegiate meet, the national A.A.U. meet, and many others, some of them with fifty years' tradition. The reason for this astounding improvement is the ever-increasing stimulus of keener competition, greater athletic opportunities as a result of greater emphasis on sports—and the aniversal physical improvement of the businesses of the properties of the contract of the con

During the late and not particularly lamented 1940s, there were more recordbreaking performances than in the 1920s, every standard track and field record was shattered. But marks chalked up in the twenties also overshadowed those of the preceding decade. Back in 1920, almost every track coach

issue in 1970, inmost every trace coarn thought that athletic effort had reached its peak. When the pole vault record was hoisted to the then dizzy heights of 13 feet 5 inches in the 1920 Olympics, a 14-foot vault was thought impossible. Yet seventeen years later, two vaulters from the same university cleared 14 feet 11 inches! And last year, there were ten men in the U.S.A. who cleared better than 14 feet.

THERE'S MORE, FOLKS

For nearly twenty years, Ralph Rose beld the 16-pound shot put record of 31 feet. Last year, eleven college men bettered that mark, and in 1935, Jack Torrence set the present record of 37 feet 13/ inches. In 1939, Elmer Hackney of Kansas State, who has another year of eligi-

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THE FUTURE

hility in college and is still improving, threatened Torrence's mark, not once but twice.

So what do we deduce from the above?

We learn, on the basis of these shattered records over the past forty years, that in the year 2000, today's high-water marks are going to look pretty silly.

	THE RECOR	D SPEAKS	
EVENT	1900	1910	1920
100-yard dash	9.8 sec.	9.6 sec.	9.6 sec.
		21,2 sec.	21.2 sec
440-yard dash	48.0 sec.	48 0 sec.	47,4 sec.
440-yard dash 880-yard dash 1-mile run	1 min. 54 sec.	1 min. \$2 8/10 sec.	1 nun. 52 2/10 sec.
1-mile run	4 min. 15 sec.	4 min 14 4/10 sec.	4 min. 12 2/10 sec.
120-yard hurdles	15.6 sec.	15.2 sec. 51 ft. 145 ft. 254 in.	14 4/10 sec.
16-Sept shot put	46 ft. 756 in.	SI ft.	51 ft.
		145 ft. 254 in.	156 ft. 1 in.
Pole vault	11 ft. 9 in.	12 ft. 10 in	13 ft. 5 in
Pole vault High jump Broad jump	6 ft. 4 in.	6 ft. 51/2 in.	6 ft. 734 in
Broad jump	24 ft. 5 in.	24 ft. 11 in	24 ft. 11 lm.
Javelin throw		201 ft.	208 ft. 8 in.
	BUT HERE'S T		
EVENT	1930	1940	2000 A.D. (est.)
100-yard dash	9.5 sec.	9.4 sec	8.8 sec.
220-yard dash	20.5 sec.	20.5 sec.	19.1 sec
440-yard dash	47.4 sec.	46.4 sec.	44.0 sec.
880-yard dash	1 min. 51 8/10 sec	1 min 49 6/10 sec	1 min. 44 sec.
1-mile run	4 min. 96/10 sec	4 min. 6 6/10 sec.	3 min. 55 sec.
120-yard hundles	14 4/10 sec.	13 7/10 sec.	12 sec.
16-feet shot pet	52 ft. 75% in.	57 ft. 13/2 in.	70 ft.
Discus throw	60 ft. 0 in.	174 ft. 156 in.	230 ft.
Pole vault	14 ft. 11/2 in.	14 ft. 11 in.	19 R.
High Jump	6 ft. 85% in.	6 ft. 10 in.	7 ft. 2 im.
Broad jump	26 ft. 1/4 in.	26 ft. 85/5 in.	29 ft.
Javelin throw	35 ft. 9 in.	253 Rt. 4 im	300 ft.

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But hold on, you say. What about the Second World War? Won't that kill off a fine crop of athletes? Sure. And a rotten shame, too. But there'll be others to take their places—youngsters who were too young to be in the front lines, and who ducked into particularly deep concrete shelters when the bombers roared overhead.

Well, then, we agree that more records will be busted, perhaps in the next few years. After all, who would have thought it possible that in the 1935 Big Ten track meet, three world records would be broken by one man?

by one man?

And what a man! Within forty-five minutes, Jesse Owen ran the 100 in 9.4, the 220 in 20.3, the 220-yard low hurdles in 22.6, and equalled the broad jump mark of 26 fant 81/4 inches.

SOME BLANKET FORECASTS

How about the other sports—team sports such as football, baseball and the like? There is no adequate way of comparing the respective efforts of ourselves and the generations to come. But I'm going to stick my neck out and predict that the best of this year's athelic crop will be definitely interior to the boys sixty years hence. After about 1945, football will probably will pro-

be de-emphasized considerably. Byidence pointing toward this trend is more than any pie even now. Several prominent educators are today denouncing the results of overemphasis, and for the first time they have recordive listeners.

Then too, this Second World War will have repercussions which will be reflected in great economic and social changes. Naturally these changes will go to the heart of a thletics. Cobperation in the military sense being closer today than even being closer today than even post-war atbletes will be less likely to be "glory grabbers," but will go in more for "playsical culture" for the sake of exercise and hody-building. Future emphasis will be on mass athletics, not on individual tyros.

BASEBALL ON WAY OUT

Yet I look for a decline in certain purely team sports. Baseball, for instance. Nowadays the pitcher is allowed too much time between throws, and this will gradually exbasset the patience of the peppier coming generation. Softball, a specifier game, may yet displace our present national sports

pastine.

The "class" sports—golf and tennis—should attain greater growth, since more and more people are finding out that these sports are not confined to the wealther brackets. Tennis in particular will come into its own, once the old foges now sitting on the lid are made to how before popular pressure.

I am not saying that the present-day champions in these sports are on the whole unathletic; far from it. But they are opportunists. Their actual all-around talents compare feebly with the relative physical prowess of a decathlon champion, a weight lifter, a champion boxer or wrestler, or a standout foothall star.

By the year 2000, hundreds of golfers should break par where only one can do the trick in 1940. And by the same token, tennls, one of the hest all-around games ever invented, will find a much wider playing audience.

MORE PREDICTIONS

Mechanical sports, such as airplane races, automobile and motor boat racing, as well as other mechanically invented sports, should attract the greatest crowds of all in 2000 A.D. No doubt there will be roundthe-world air races, with the winner the Charles Lindbergh of his day. And mechanical sports records should reach unpredictable heights!

The year 2000 will find no millionaire professional boxing champs, such as the Dempseys, Tunneys and Joe Louises of to-day. People won't fall for that commercialized stuff sixty years from now. But boxing and wrestling will be more widely taught than ever in high school and college

gymnasiums.

LEAD ON, ADONIS

There are those people who say that the world is getting "weaker and wiser"without regard to statistics. They predict that man will be eventually no more than a living brain, as the globe becomes supermechanized and muscle functions decrease. Horse feathers, brother, borse feathers! People will always admire a well-proportioned, clean-limbed, smooth-skinned human body. The Greeks, after all, had the right idea. Dieting will be more scientific. The girls will have come-hither figures without starving themselves to death and risking anemia and such. And their boy friends will have learned the secret of Apollo despite indoor work, The most notable change will be abbre-

viated clothes. In summertime, people will
wear only the minimum for respectability.
No more hot collars, heavy leather shoes
and suit coasts. And as for excretes itself,
many short-cuts or "systematic exercises"
will have been developed to make hodyhuilding less complicated and more fun than
it is now. In fact, many clutactors will
testify that physical education is the best
complicated to college today. When the
complication of the college today. When the
A superhuman race? Absolutely—in
2000 A.D. Statistics rowe till.

COMING SOON!
A BRAND NEW TIME TRAVEL STORY
By the bading teller of time stories in all econoc fiction
RALPH MILNE FARLEY
WATCH FOR IT!
DON'T MISS IT!

Science Quiz

The following quit has been prepared as a pleaseast means of testing your knowledge of science actions flotten. We offer it solely for the pleasure it gives you, and with the lapse that it will provide you with many bits of information that will help you to ejoy the stories in this magazine.

It gives you, and with the loops that it will precide you with meny bits of information that will help you to exjoy the stories in this magazine.

Court 2 points for each correct essues. If your court 2 points for each correct essues. If your cours is between 65 and 75, consider yourself a charter member of our No. 1 LA.A.W.C.—I Am a Whit Cibb. If you score between 65, and 64, join

eur No. 2 I.A.A.W.C.—I'm Almost e White Club.
But if your total is befow 50, you belong to the
No. 3 I.A.A.W.C.—I Alar's e White Club!
NO BEGINNING, NO END

In the various sciences many things occur in series. In the following list are ten such series, with the first and last terms omitted. Can you play both ends arainst the middle and surenly the

- missing terms?
 1. ..., blue, green, yellow,
- Saturn, Uranus, Neptune,
 Bryophyta, Pteridophyta,
- 4. ..., Proterozole, Paleozole, Mesonole, S. ..., Neon, Argon, Kzypton,
- 6. ..., A, F, G, K, 7. ..., Metaphase, Anaphase,
- 5. ..., Metaphnoe, Anaphase, 8. ..., Retention, Recall, 9. ..., Smell, Touch, Hearing,

10. ..., Hydrosphere, Lithosphere, RIGHT OR WRONG? 1. The constellation Hercules contains several

- strikingly hright stars and hence is easy to locate in the sky.

 2. No railroad train or automobile could move
- without friction.

 3. When two elements unite to form a compound, the properties of the elements, with the exception of weight, are completely lost.
- the exception of weight, are completely lost.

 Air is a compound.

 A sunset, just as the last glimpse of the sum appears, its color changes from reddish-yellow
- to green.

 6. It takes more pull to drag a brick-shaped hack across a table top when the block is standing on end than when it is lying on its
- standing on end than when it is lying on its side.

 7. Oxygen is slightly soluble in water. Were it not for this fact, aquatic life would be im-
- passible.

 8. A substance that produces no gas during combustion will gloss.
- bustion will gious.

 9. Lead is the densest, the least active, and the chespest of the useful base metals.

 10. Stars twinkle, but the planets of the solar
- system do not twinkle.

 11. There has never hern anything found in me-

- teorites which has not been found previously on Earth.

 12. Hydro-electric power is much cheaper than
- power from any other source, because it exists as the free gift of nature and is in a very usable state.
- Cold-blooded animals are those whose body temperatures fluctuate with that of the sur-
- rounding air or water.

 14. Although the quantity of gold in sea water is enormous, the cost of recovering it has hitherto been greater than the value of the gold.
- Cobalt is similar to nickel and could be used instead of it for many purposes if a cheaper supply of cohalt were available.

HOW'S YOUR CIRCULATION?

The function of the circulatory system in human beings is to convey sourishment by means of the ... to all parts of the tiasons of the hody. The sourishment consists of ... obtained from the sir through the laugs and of the nutritive substances derived from the ... we exi.

The circulatory system consists of two distinct sets of tubular vascels; one set conveys the blood from the ... side of the heart conveys the blood and is called ... After the blood has given up its nourishment to the tissues, it is conveyed back to the ... side of the heart by means of the

The other set of tubular vessels conveys the blood from the ... side of the heart to the lungs, where it gives up ... and obtains ..., and then hack to the ... side of the heart, from which it is conveyed in the first set of hlood vessels and them through the body again.

SCRAMBLED WORDS

An element GENSTUNT
 Suramme of a science-fiction author
 SLAMILIW
 Synthetic silk NONLY
 A constellation BARIL
 A constellation TARCANTAIC

WRONG ALLEY Strike out word that does not conform.

 Lutecium, Zirconium, Rhododendron, Dysprotium, Argen.
 Asia, Africa, Australia, Antarctica, Arctic.

 Inch, Foot, Yard, Pole, Furlong, Mile, Minims, League.
 Planet, Planetoid, Planetarium, Satellite,

(Answers on page 143)

Meet the Authors

JEP POWELL THE SYNTHETIC WOMAN

SireD by a Baptist minister and raised by a devost Christian mother, I was purped early of any latent makings of a top-flight worlding. It is with a deep sense of shame that I am unable to tell of rip-snorting escapades in face-fluing corners of the world. I confess I ain't heem no-

corners of the world. I confess I am't been nowhere and never saw nothing.

Like Malcolm Jameson, who occupied this covcted page in your August issue, my early days were spent in a lunatic asylam. I was been there. (Milledgeville, Ga., 1901.) I hazten to explain

(Milledgeville, Ga., 1501.) that my sucle was a doctor at the asylum, and Mother went there so I could happen in his bunspilow on the campus. I was spirited away short-by after the event—a move my friends now regard as timely, and fortunate.

gard as timely, and tortunate. I missed my calling. I should have been an artst. I could draw creditable pictures before I could write legibly. In grammar school (public school down in Georgia), my talent began to lean toward cariculare and satirical cartoons. My teachers unaimously disteachers unaimously dis-

teaches unanimously discouraged my at
World War No. 1
legs, taking R. O. T. C.
training and looking forward to he coming a
"shavetal" in the army.
Soon thereafter, I salited
forth to conquer the world. Since the I have

made several desolvery and unfrutful effects toward the same goal. After keeping beeks for a while and then selling pianos, I decided I should go into business for myself. Somebody had a restaurant for sale. I hought it. I had no experience in this line but possessed an incomitment appetite and thought the venture a good size. In two months I gained fifteen pounds and lost \$1,000.

My art hegan to litch. I failed to make the art department but landed in classified ads—Atlanta Constitution—from which vantage point I planned to work my way to the drawing board. It didn't happen. The great exodus from Georgia swept me into Florida during the real estate beom of the weird Twenties. While everyone else was making money buying and selling lets, I tolical away as a reporter, rewrite man and copy-reader on various

reporter, rewrite man and copy-reader on various Florida papers.

When the Florida bushile burst, I went to Chicago. I landed a copy-reading job on a daily racing paper, the day helor: I was fired from the Hendid-Ensonier copy desk for writing an un-

tunny "head" on a one-paragraph story shout the Prince of Wales taking a ride without coming a-cropper. The reason for having sought another job was a

部 /, JEP POWELL

Damoclean sword over the heads of all the toilers around that hysterical deak. Being fired from the Hereld-Er instead of quitting at the end of the week served to keep my record unbroken.

For some reason I rever quite understood, I
became editor of the racing paper, then gentral
manager. It was in the
latter capacity that I saw
my first hores race. II
was in the same capacity
that I okayed some cartoons for a racing weekly
under my supervision.
The cartoons were signed

"Jep."
My paper folded because of lahor trouble and a hitter battle with NRA. The lahor trouble cost me a fairly herative job but it afforded me brief importance—I had a bedyeared.

After a short time in Circinnati, I migrated again to Florida. Between newspaper jobs there I was a poess agent, radio script writer, abyster commercial artist and advertising copy writer. Also I starved a little.

In New York, I've written irre-lance factual

stuff for racing publications.

Increasing dealiness forced me to try fittion, an ability which I have long suspected. I wrote a detective newelst. It housed. I wrote set detective newelst. R housed. I wrote set when the state the state of the state of

132



7 EXCITING STORIES of Adventure and Romance

THE REVENGE OF JIM RAND—by Robert Lesile Bellom. The name deserved the game, so Jim Rand throw in with Linewest when Kuther Vanderg gave

- THE WOMAN WHO TURNED TRAITOR—by Alexander Blade. Loung the woman you lost un't as
- bed as finding she's a trainer. It makes a man do reckless things.

 OANNIBALS' REVOLT—by Meely Wade Wellman.
- When a mob of cannibals goes amuck, you haven't get time to sit down and wait for the Marines to arrive!

 TREASURE OF THE DEAD—by Devid Wright
- **O'Brists. Moon Misco had it all planted. Shawn would go to his death and Mente would get both his parener's wife and richae!

 MYSTERY TERASURE OF MARUTES. By James.
- Norman. What resseen was behind gaugined's his packing a movine stark yacht to make a raud on a remote inland? See page 861

 TROUBLE ON TUNGA.—A. R. Stehen.
 McRane needed lustness to keep out of the red
- McRarc needed business to keep out of the red But he didn't need the kind of business John Ahu had to offer . . . !

"Here they come!" said Jim Doyle desperately. "Our only hope for escape is to outrun them!" With Helen staggering beside him, Jim

turned and fought his way through the green tangle of the jungle fifteen savage native warriors racing in close pursuit, yelling like maniacs, waving spears and clubs!

If only Lani had not turned traiter.

Helen and Jim would have been miles away. But Lani, the most beautiful creature who ever walked on two legs, had betrayed them. And Jim Doyle knew the reason why.

The native girl was willing to be ma-

rooned with him on an uninhabited island, but she was not willing to lose him to Helen Bishop! Now, if they were captured, Lani would

get her white man—and keep him!

Don't fail to read CHEAP LOVE by

Robert Moore Williams! You'll thrill to
its exciting action, native romance. South

Sea glamour and daring adventure! TURN TO PAGE 10

South Sea

Thrill-Packed AUGUST ISSUE Now On Sale

QUESTIONS ANSWERS

This department will be conducted such moeth as a source of information for our readers. Address you afters to Queeties and Answer Department 4HAZING STORIES, 656 & Despring St. Chicase, III.

Q. Are infra-red rays visible, and if they are not, why are they called red? What is their position in the scale of wave length?—Edward Gadouar, Miscouher, Wisconsin.

A. Infra-red rays are invisible, like wireless waves, next to which they lie in the wave length scale. They are emitted by all hot bodies, electric race, stee, which accounts for their connection with the color red. Their wave lengths vary between about 0.015 inche, and 31.07 inches, which is the limit of visible light. Above that we come to the true "red" color, visible to the eye.

O. When we say "uccalive" or "positive" what

distinction do no make, and how do no definitely distinction do no make, and how do no definitely designate salach is nakeh?—Frederick Pohlmann, Ishpensing, Michigon.

A. The names "positive" and "parative" which

A. The sames "piertive kase "measure whiten are applied to electric charges are purely a master of convention as to which kind of charge is midted of electrical experiences when it was found that a piece of sealing-was rubbird with flaunch attracted wax. Thus, the charge on the flaunch was called wax. Thus, the charge on the flaunch was called the charge of the wax was called

negative.

Q. Why does a nail, solve his solth a hammer,
get host—Roy Wright, Devest Inu, Dorset, Vt.

A. The answer to this, and all similar oucstions, is this; There is a transference of energy-This particular energy is an active form of energy known as "kinetic." It is measured by the produet 3/6mp2, where m is the mass of the moving body and o its velocity. Suppose the hammer which hits the nail weighs 2 pounds and is moving 10 feet per second at the instant of impact. If the hammer stors dead it has lost 1/4 X 2 X 102 = 100 units of energy, and some of this energy divides itself up among the many particles in the ealthead and hammer, whose energy of random motion is thus increased. Another portion of the energy of the hammer has been used up in overcoming the resistance of the wood, or other material, into which the nail is fixed. Yet another fraction has been given to the surrounding air and dissingted in the form of the sound of the blow. Sounds are vibrations of air particles and are therefore a form of energy.

O. How do plants capture sunlight?-N. R.

Nillson, Austin, Minnesota.

A. A green leaf is a few cell-layers thick, and

is treversed by veins, the transport system by which water enters the leaf and elaborated food is carried away. Their branching network provides for the effective distribution of water to all the living cells. The lower skin of the leaf is nierced by numerous openings-called stomata-so numerous that there may be one hundred thousand to the square inch. Through these minute openings water vapor flows out, and carbon dioxida flows in. They communicate with a system of sir spaces in the leaf which ellows a supply of the gas to reach every cell. The leaf-cell is the actual laboratory in which the unbuilding of food takes place: it includes, embedded in the living matter. numerous biscuit-shaped green bodies (chlorophyll correspond whose function is to absorb and transform the light energy.

The flatness of the leaf means a large absorbing surface, and the avrangement of the leaves is suited to avoid mutual shading, and consequent loss of Fight.

To the leaf-cell, then, there flows water with

and thread, the veins, and earlier denoted threads the testimats and it speces. In the cell there is an energy transformer and absorber, the chlorady in the cell, (so, there is protophen, the polytic flot test), (so, there is protophen, the polytic flot test), (so, there is protophen, the cell of the cell

Q. Is it true that the insect commonly known as the Earning burrous into people's earst—G. L. Burchley, Toledo, Ohio.

A. Undoubtedly you are referring to the species of beetle known as the Dermaptera. This insect is an ebingate beetle with a pair of beavy, pilerlike jaws at the tail end of the body. However, it is entirely untrue that they burrow into people's ears, this being another of the myths attached to insects and other wild creature.

DISCUSSIONS

A SARTING STORMS will publish to each issue a selection of letters from readers.



Everybody is welcome to contribute. Bouquets and brick-hats will have an equal chance. Inter-resider correspondence and controversy will be encouraged through this department. Get in with the gang and have your say.

MRS. OWENS AND SON

Sirs:

Our boy has been reading AMAZING STORIES and
Fautoritic Adventures for some time. I read "Subotage on Mars" and would like to see more stories
by Maurice Duclos in your magazine.

Mas. A. L. Owres, Lemits, Calif.
We are glod to ree that our magazines are becoming a family afair. We will try to keep both yourself and your ron ratisfied by precenting more stories by your Sevorite author. Many thapts for

your interest in us.—Ed.

AMATEUR HOUR!

Sirs:

I was interested in seeing the mention in the July issue of Amarino Sroutes in "When the Gods Make War", and I appreciate your thoughtfulness in forwarding it to me.

My thanks—and kindest regards.

Mayon Enwant Bowes,
New York.

Apparently A. R. Sither has made the grade in

AMAZING STORIES Amazeur Hour.—Ed. COVERS

I think I can say that I am a veteran science fiction fan. I have been reading Amazung Stories ever since it was large size-and you know how long ago that was. I rarriy write to a magazine. because I have little time for such a thing, and also because I feel that it's up to the editor to select the stories-not the reading public, However, your last few issues have prompted some remarks from this corner. First of all, your covers: The May cover was frankly speaking. terrible, (and so was that spelling!). First of all, it was poor because it bad no action. Then too, the colors didn't seem to blend very well. No more of Hartman, please. The June issue, now, was a definite improvement. Very good for Krupa's second attempt. Very good issue, by the way Shades of Paul, Dold, Wesso, and Morey! What a cover by Fugua! Frankly, I have never seen the equal to the July illustration. Tell me, is there any way of petting the original? All right, then we can score two commendable covers in a row. But vesterday, when I went to my fa-

voite newstand to get the latest ish, what did earth my roving eye to suddenly, but the new combination cover by Krupa and Morey! I have always munitaried that if Morey want's to "individualistic" (as the editor says), he would be the ideal ratts. So what does ye older old ob tat get Krupa to reloush and smooth out Morey's lisesses ever elevate in the history of still. Comeratuserses ever elevate in the history of still. Comeratu-

scene ever drawn in the history of still Congratulations a thousand times!

Your stery quality is improving with every issue. More and more top northe substons are presented in such linus. Then, too, you are exponsible for Don Witces, who is my spinion, is now one of the top making authors in at today.

non-red 200 water, with it by opinions, is now one of the top enaking authors in all today, one of the top enaking authors in all today, favorities, M. Jameson, T. Ayre, D. Wilcon, E. Bunder, M. Wellman, E. Harshon, R. Farley, R. Recklymae, F. Pragrell, L. Manning (who has been out of print for quite some time now), A. Steber, M. Kaletsky, and n host of others. June A. Rus,

100 Warner St.
Newport, R. L.
You aren't quite right when you may us't up to
the editor to stiret the stories become the opinion
of our readers counts greatly in the policy your
editor paragres when he reads the manueripts on

his desis. We are sorry that the May cover dish's "go" with you, but we down't understand what you wens by assign the priling was terrible. We've looked at the cover until our eyes toke wed one's find anything wrong with the polithing. However, we are greatly pleased to distroor that the most three covers made such a his with you. There is a very of getting the original. Watch were not religible, the covers and the properties of the properties of the properties of the properties.

Stories by your favorites, with the exception of Mr. Monning, are scheduled for the near future. Mr. Mounting, we enderstand, is quite a busy man these days, and no longer writes science fiction.—

BAFFLING SIMPLICITY!

Congratulations to you on the success of your most recent contest and the immunorable scores of honorable mentions it necessitated, besides the

Sire

Camera Jans!

MAKE YOUR VACATION PAY RIG DIVIDENDS

I F you want to travel during your vacation this summer—if you want to have a lot of fun and be paid well for having it—then don't fail to read 'framed Pictures Pay Tour Way by H. Donald Spatt. This industrious amazeur photographer of Reading, Pennsylvanis, tells how you, too, can take fascinating travel pictures that sell. You! If find this timely article on page 34 of your August PoleULAR PRIOTOGRAPHY.

POPULAR PHOTOGRAPHY
can help you get the most out of your
cangers this summer. The August issue is

bubbling over with vacation talk. . bely-ful hists that will nake your shotter farger twitch! Expect photographers tell you how to plan your camera vacation; sweld common metakes; sube definants urban about; film the youngaters; capture garden, matine, and desert pictures. Yes, camera fann, you're resisting too much if you miss the big, colorid August tame?

EXTRA! Cavalcade of Color!

4 PAGES OF BRILLIANT NATURAL COLOR PHOTOS

Popular Photography

AUGUST ISSUE Now On Sale At All Hewsstands and Camera Stores regular prize winners. In it not amazine—the mumber of renders wino participated an answered correctly, in differing degrees, the remarkably difficult problem placed in their juridistrian? And the state of the properties of the state of th

Sour Grapes of a surety! Quoting the unquoted Sage of Shanshai-and points Northmight I suggest I am deserving of same? Your mistake, RAP, and Mine. Yours for not making it clearer to the readers what you wanted, instead of subtly suggesting that they strain a membrane finding a new angle for the ending; my mistake in thinking-I should just stop at that trite phraseyou were looking for mutations in a sase, biologically catalogued and thus equally boring world of repetition. Thank heaven, however, that I didn't have anything startlingly revolutionary. I don't believe you could have stood the shock! Warning: don't ever visit Saturn's seventh circle. 'cause ooh! What I saw there! Well, that bouch of grapes of wrath put through the wine press to my utmost satisfaction, I'll invite you to have a

drink on me.
Beiga a verd bayr (derenning) film-de-Mittale. Beiga verd bayr (derenning) film-de-Mittale for the proposed by the resp. time send my very beillitäte personality on jou you, seeign a bow 1 fully resulte betty our cannot print the in Discussions for fars of the wrath of each and bow 1 fully resulted by the proposed by th

truth, or can we? Being me, I can't exactly rave about any of your stories since I recall none at present worth raving about, but they must be good because a mite of Scotch in me prevails over anything I consider as inferior quality. All my back issues being at present in circulatory demond, I don't dare praise the one story that really impressed me enough to remain in memory through all the filtered and unfiltered literature I absorb as peeded daily vitamins. Wouldn't it be dreadful to exalt your competitors after the mortar-compound I tossed along with my bricks already? With you as weak as a microbe in molasses, due to previous assault, the law pertaining to the survival of the fittest just couldn't apply steel properly to your

fittest just couldn't apply itself properly to your case. One fart I do find most amazing it how artistconscious all the fars are I rtill wonder whether it is that they are just looking, for some fly paper to set out for the efficos, or do they railly notice and care, after a certain grade of art is attained? I could understand their objection to anything atrociously executed, but durated if most of them aren't displeased with something that strikes my artistic eye as being a really masterful display of technique! Puzzlement?

'Nuti said, except that you can't keep a good girl down, so some of these days I'll up and write a talt of TT myself and there won't be any ebbteasing connecting it to other plots either. Td like to argue with RMF or Lores on the point the latter stressed, of the impossibility of George meeting himself, because much as it would be against the law of physics and against the creation of matter from nothing, there WOULD have to be a certain merging point at which George would have to meet himself! Impossible? No more so than this particular conception of time travel to my notion in the first place. Anyhow, hold your breath until was TTMutation arrives as nechans your predecession may soften the bearts of those who come ofter towards me and my ambitions Fulton, all I need is backing (down).

And anyway, why should I worry about anything like this when it is to my intentions to be the first human being to soor aloft a million, or maybe two. Who would care to back me? Well, like See you in Esquire then, as soon as synthetic hormones of sufficient strength are perfected to such a derree that you will be allowed to choose the sex desired of yourself; since the abourd prohibition of anything under the feminine cender

is prevalent at present as unecalable crags to we of the weaker sex. Until then, I remain. As the Saturn Sass-Box.

MARITAME NUTEVALL Patagonia, Ariz. P. S. "He brought it on himself, Miss Twiddle" -RAP, you did! But that twit shout the "bundeads of entrues" failed to also the courses answer

or to even suspect the fate of George Worthey. Here you have one of the reasons why this entry. at least, didn't suspect such simplicity either of PMF or of Assessed S.(A)P. And am I happy now! We really are sorry that our contest was to

simple that you missed the boat by working too hard on it. However, we don't arree that the reason for your not making the grade is due to simplicity in the contest. It may be that you are just a bit more clever than the average reader and judging from your letter, you might have shown Mr. Farley a few angles in time travel that he never thought of.

We have a new contest coming up which ought to be right up your alley, so to steak, and we promise you won't have that element of baffling simplicity Your comment on our artists is interesting.

Our net work puts a great deal of comment and we think it proves that our artists are the best in the science fiction field.

We certainly don't most to keep a good girl down, and if you ever get cround to writing that

LOOK OUT **BELOW!**

It's open season over there

. . . bombers are going to town literally and colloquially over war-torn For In an authoritative article, James L. H. Park nuther of "Armies With Wier. brings you an up-to-the-minute acc of modern bombine operations; no of bombing; types of "eggs" used: c ing the attacks sights, and types bombers. Read this great article you'll know why the modern box plane and the "eggs she hetches plane and the "eggs she hatches" upon military and helpless alike make her more to be feared than any of man's weapons. This is just one of the timely erticles on eviction you'll want to read

August Issue

FIVING AND

ON SALE AT ALL NEWSSTANDS





YOU DON'T RISK A PENNY!

travel story, we would like to see it. And so, we believe, would Mr. Farley. We certainly down erohibit feminine writers. We buy stories, not personalities. Incidentally, would you please write us again and tell us tokere in the heck Patagonia, Arizona, is? We thought it somewhere in the South Sea Islands .- Ed.

CYCLONE CORRECTION

Sire In your July 1940 issue of AMARING STORIES OR page 75 you refer to a cyclone as a "funnel-shaped

cone of whirling air". This is a slight error. Quoting from College Geography by Case and Bergsmark, copyright 1932, I find that cyclones are "characterized by large areas of low atmospheric pressure in which the air flows spirally inward and upward". From this definition, we can see that a cyclone covers a large area of "2,000,000

source miles assume sixe! The picture you present is that of a tornado, which lasts but a short time and doesn't cover as

large an area as that of the cyclone. The tornado has a reduced pressure near the center of nearly three-fourths normal and hence as it "passes buildings, the roofs, walls, and windows may he blown out as a result of the excessive pressure on the inside of the building as compared

with that on the outside". The cyclone approaches gradually and travels from 500 to 700 miles a day, while the tornado

comes up suddenly and dies out quickly. It gives only a very slight warning of its approach. "Tornadoes are associated with well-marked lows (cyclones) in which both the temperature and relative humidity are high". Every storm we have in the United States is a cyclone, but only

the funnel-shaped ones are tornadoes. ELEGRETH M. DOWNY. State Teachers College.

Glamboro, N. I. Many thanks for setting as straight on cyclones. We base your correction on to our readers with profuse apologies. We should have known better.

HEAD OF THE CLASS

- Nd

Refore I on any further with this letter. I want to say that I am only fourteen years old, which will probably out this letter in the weste backet. But if you decide to read on, I want to say that I think this massome is very sood.

I have been reading science fiction since I was eleven years old and have been reading this magarine and its companion magazine, FANJASTIC Ap-VENTURES, since it came out, for over two years, This winter I stood at the head of my freshman seneral science class all year, and I can safely say that I owe it all to science action magazines.

Stop your machines, because here come the munkey wrenches. My most important criticism is this (hand this to the editor of FANTASTIC): In some of your issues I occasionally find a story such as one in which there is a modern muscle-bound super hero who takes a tremendously heavy battleaze and goes off to a secret land, of which only he of the modern world knows, which is equivalent in civilization to the middle area, and with an axe in one hand and a beautiful virl in the other, indifferently goes about killing off medieval villains, with Heklos, or slaughtering monstrous octopi. This type of story is very good, BUT IT HAS NO PLACE IN A SCIENCE MAG. Criticism No. 2; Long-winded scientific definitions. Now, let me make myself clear. My age has nothing to do with my ability to understand them. I can keep

up with the best, but take it from a bookworm, a long-winded technical definition is, in my mind, tshoo. In the first place, they get so boring that I just let my mind wander while I'm reading it and consequently have to read it over four or five times before I can force myself to concentrate enough to get the meaning. Ofttimes they get so had that I throw up the whole story. I disagree with Walter F. Williams in the July

issue about bringing cartoons into your magazine. I think that no matter how much you strive, a serial cartoon will eventually take on the carmarks of a cheap movie sorial. As you see, your letter didn't go in the worte

ROSERT A. RIDGE. Canton, Mo.

basket. And giving as credit for your standing in class makes su feel gretty good. After that, we can take the monkey wrenches. We admit that sometimes we have tokat you term muscle-bound heroes because our readers like action with their science, but we don't geree that we have lonewinded scientific definitions. Are you referring to our footnates? When rejence occurs in a story. see tey to remove it to speed up continuity and for those readers who demand to know the theory behind the story, we replace the information in footnote form.

Other readers have confirmed your opinion re-

OUALITY! Sire The quality of your July issue saved you a customer; namely, myself. First, the cover was one of the host I've seen since around June or July of 1939, being attractive and interesting without such a layish use of clashing colors. Except that the planes are the recent Boeing B-17R's of the Army instead of more advanced types as they were sup-

posed to be, everything was swell. As a general thing, the stories were above par-"When the Gods Make War" was well done and surprising, and Steber is a fellow to be watched. it seems. Adam Link scores again, as usual, coming in with second honors mainly because I've seen a little too much of him lately. Don Wilcox did himself proud, and Malcolm Tameson touched up a rather old idea. Thornton Ayre somehow

didn't click, for once, but "Secret of the Moon Treasure" will probably rate high in the polls. Down at the bottom, then, we find Kaletsky's screwy-professor yern, and that finishes up the

Another thing in favor of your July book was the back cover by Paul and the explanation on the inside by Henry Gade. Keep up the good work, for you haven't yet touched the moons of Jupiter and Saturn, which would give you a score or more subjects to work on. I once brickbatted Henry Gade, hut I'll wager his work on these planetary articles have given him a reference background for a nice story. Since he redeemed himself after my derogation, I'm ready to receive him with an open mind. How about it?

AVETET MANUEY. 1628 N. Abingdon St.,

Arlington, Va. The July coper received more fan mail then any other court this year. Mr. Fuque will be pleased to know that he has scored so well.-Ed.

WHAT ABOUT F.A. NOW? There are no really outstanding stories in the

July AMAZING STORIES. First place lies between "When the Gods Make War" and "The Monster Out of Space," Both are sadly weakened by undue stress on love-interest and melodeamatic action. Kaletsky's farcical fantasy is amusing. The most interesting portions of the issue are

Steher's amazing autobiographical sketch, and Kent Casey's letter on Lemurian data. The cover is highly satisfactory, except for the printing. Even the colors are reasonably realistic.

Congratulations ! The Earthman as Seen by Mars on the back cover is entertaining and fairly plausible. The magazine as a whole is still too much like its comparion, Fantastic Adventures, but I con-

tires to read it !

D R THOMPSON. 3136 O St. Lincoln, Nehr. We don't quite agree that America Stores is

too much like its companion, Fantastic Adventurre. The latter marasine stresses funtary, whereas are stress science.—Ed.

NEW AMAZING 2 YEARS OLD Cier. The latest issue of AMAZING STORIES I now have before me, the July 1940 one, and because it is the last one in the second year of your manage-

ment, it seems no more than proper to hand out a few contratulations. Last night I relinquished the time I would have spent writing you to elance over the 24 magazines that have proved that the worst can become the best, and in a short time. From the awful first

issue on up through the Krupa and Fuqua era, into the Paul, Morey and better stories period, and now into a slight slamp of the past few issues. Faulty chopping of illustrations, poor artistic work and an almost utter lack of science in the stories



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SLEOOT is a decolerant prepared especially fee reprints feet, hepp all force prospitation and unshand edons. Die DESE FOOT and keep your feet dry deed at the DESE FOOT and keep your feet dry deed at the DESE FOOT and keep your feet dry deed at the DESE FOOT and keep your feet dry the order and my pay pression.



are the causes of this slight depression, but the manner in which you dragged the magazine out of the mire in '38 gives hope of a slightly improved format in the near future.

Forgus Cover was faulters and quate unlike his work carlier anticative was 1 settle, merely adventure a read was 1, norther was 1, settle, merely adventure a read was 1, norther was 1, settle, merely adventure and 2, settle of the control of the

without the slightest thought of revenge. Cer-

Witco score again with "Mirrors of Madness," a story with score and logic and good mystery. Its Krups illustration was No. 2 of the goos, and it was No. 2 of the goos, and it was No. 2 of the stories. The best story was Jameson's tale of the spaceways, the only other real science story in the miniarine. The distreyer was something new in this field and it was realistically described by the author. Paul's denwing for this, the best in the issue, and I still like the followings, framed pix:

The thort was dever humor and also introduced a The thort was dever humor and also introduced a comor of him. The first steep's Jyev was one of his power, it think, hardly comparable to his "Locked City" and the others. It rambod all over those of his power, it think, hardly comparable to his control of the steep's and the others. It rambod all over those first his power was the steep's the steep's hard his power was the steep of the steep's hard the code, just his a posity was the man power than the steep's his his a posity was the man power than the steep's his his and the code.

CHARLES HOLDEN, E.S.,
New York City.
Thornton Ayre is working on a story called
"Mystery of the Martian Pendalam," which we
tromite you will notice our "Laybed Chy"...Ed.

QUIZ CORRECTIONS

Steve

In your IQ Test of May 1940 there are two things which I should like to point out to you.

1. In question 2, in addition to the new moon not rising in the evening, it is avaistle. Notody ever "saw" the new moon; it is dark. The full

were "new" the new moon, it is dark. The full moon on he called the period of the following and the full moon, it is to dark. The full moon, it is not seen to be full the ful

DAVID WEINER, 503 E. 4th St., Bloomington, Ind.

There is an old saving which user concepting
like this: "A new more in the old moon's arms"

Scientifically this is true, and the new moon restly
can be ever even without the old of a trivency.

much reading your magazine

It is visible by means of reflected light from the surface of the earth. We agree that a grafe does not leap upon its prey .- Bd.

ILLUSTRATORS

I have been reading AMAZING STORIES for about a year and a half now and still think Krupa and Puqua are your best illustrators. Others such as Morey, Jay Jackson, Hartman, Hammond and your recent illustrations by Paul are fairly good, but have faults. Your July insue's back cover by Paul and (I hope) the coming Paul illustrations are fine: keep them up. Fugua on the July issue's front cover is really superb-don't dare let

Here is how I rank the June issue of AMAZING:

Sire

articles.

1. Slave Raiders From Mercury. 2. Warlords of Mars.

3. The Mathematical Kid. 4. Trapped on Titan.

5. Planet of Black Terror. 6. Treachery on Planetood 41.

I think your departments are fine, but too few; shorten some of your stories and make room for other departments and features such as scientific

> MARYIN GOLDRINBERG, 1332 Goodfellow, St. Louis, Mo-

We publish your ranking of the June issue because it is nearly correct. An analysis of reader comment reveals that "Planet of Black Terror" is

not 55th, but second, and the other stories rank he the order in which you have listed them. -Ed. "SLAVE RAIDERS" FINE

My heartiest congretulations to Don Wilcox for his time story "Slave Raiders From Mercury." But it was the only good story in the whole June issue. I had resolved that I was going to pass up AMAZING STORIES this month because of the low grade of stories published lately, but I gut a good look at the front and back covers by Julian Krupa and I couldn't revist buying it and looking further, for Krupa is my favorite setist, or illustrator

of science fiction. To improve your magazine I suggest a longer novel each mouth-I mean about half of the manarine, written by a good author like Williamson or Binder, and only have about two or three short stories. I know it is against your policy or custom, but it would improve your magazine im-

mensely by cutting out some of your short stories that haven't been good since 1959. I would very much like to see Polton Cross return with a nice long novel in the next issue Other names I would like to see on the contents

poor are Thornton Ayee, R. R. Winterbotham, Robert Block and Miles J. Breuer. WARREN ROSS, JR., 704 S. Grand West,

Springfield, Ill.

TIRED ALL THE TIME? ding Up Your Endurance



BOOKKE

149

REE SAMPLES OF REMARK-Ulcers Stomach

PHILADELPHIA VON CO.,

Dane 168-H

COMING THE INVINCIBLE MR. ELLSWORTH

The strange story of a little man who suddenly found himself the equal of any danger, and impervious to any assault-but was too timid to realize the power that was bis. A new story by a new author

FRANK PATTON

MEET THE AUTHORS (Concluded from sace 132)

which I was originally launched, but my father died before I was a year old, eliminating the necessaty for the "Junsor". I dropped the "Exam" as soon as I was old enough to rebel against silly family rames. I've been called James, Jimmy, Jep and a lot of things I'd blush to repeat I've been married-spasmodically, you might

say-for ten years. But it is always the same girl. I am the last male of my fine of Powells and, so far, have accomplished nothing toward perpetuating the breed. I'm not terribly perturbed about it, though. In these troublous times, it's even a comfort. I wouldn't want to raise my boy to shoulder a proton gun-Jep Powell CORRESPONDENCE CORNER

M. Korthak has moved to 3156 Cambridge Ave., Chocago, III., and still has a variety of magazines for sale . . . Gene Autry, Box 5624, T.C. Station, Denton, Texas, has a very large private collection of all SF marazines from 1924 up to present day, which he is offering to sell in part or whole; must have immediate replies . . . Leo Black. 2012 Market St., Wheeling, W. Va., is desirous of correspondents of either sex about 17 years old ... Jack Townsend, Box 604, Wilson, N. C., wants to subscribe to a good fan magazine . . Robert Raffety, 911 E. 42nd Pl., Chicago, Ill., is 20 yrs of age and would like pen pals from any part of the world; especially those interested in stamp collecting . . . Charles Biggs, care Mrs. Roberte, 407 F. Eden St., Baltimore, Md., would like those owning a series of science fiction books to write and quote prices, if they are for sale . . . H. Hedstch, 43 Freddington Road, and R. Clark, 14 Frensham Road, Portsmouth, England, would like pen puls from all parts of the world . . . I. Gurdon, 288 W. 92nd St., New York City, would like to purchase science fiction magazines, name prices . . . Harry Peterson, Jr., 2221 Carmen Ave., Chicago, Ill., is 16 yrs. old and would like to correspond with those from 14 to 18 yrs, whose holders are take riding, ourture postcard and stamp collecting . . . Mrs.

Wm. Johnson, Route 1, Box 87, Kenosha.

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Wisc. has back numbers of AMAZING STORIES and other SF marazines for sale ... Arthur L. Widner, Ir., Box 122, Bryantville. Mass, would like all fans within a fifty mile radius of Boston who are interested in joining his newly founded Stranger Club to communicate with him for further details . . . Everett P. Bleiler, 58 Round Hill St., Jamaica Plain, Mass., wishes to dispose of duplicates to his science fiction collection . . . Iosoph M. Lewandowski, Ir. 17 Riverview Rd., Brecksville, Ohio, is organizing The Ohio Fantasy Association and would like all Objects interested to write him, enclosing a three cent stamp for reply. which will give full details . . Alfred Edward Maxwell, 618 S. Main St., Opelousas, La , would like to occanize a science fiction

club in his vicinity, and is anytous to hear from anyone interested in Astronomy. Photography, Biology, Sports **OUIZ ANSWERS** (Quiz on tage 131)

NO BEGINNING, NO END Indigo, orange. (Part of the spectrum)

3. Thallophyta, spermatophyta. (Classifications

of plants) 4. Archeonoic, Cenomoic, (Eras of peologic time) S. Helium, senon (The inert gases)

6 B. M (Principal spectral classes of stars) 7. Prophase, telophase. (States of mitosis) 8. Learning, recognition. (Divisions of memory)

9. Sight, taste. (The five senses) 10 Atmosphere, centrosphere (Four spheres composing the Earth)

RIGHT OR WRONG? 1 Wrong, 2 Right, 3 Right, 4 Wrong, It's a mixture. S. Right. 6 Wrong. It takes about the same pull for both cases 7 Right, 8 Right. 9. Wrong. Iron is the chranest of the useful base metals, 10 Right, 11 Right, 12 Wrong, 13.

Right 14 Right 15 Right HOW'S YOUR CIRCULATION? Blood, oxygen, food, left, arteries, right, wrins,

right, carbon choxide, oxygen, left, SCRAMBLED WORDS

1 Tungsten 2 Williams 1 Nylon 4 Libra 5 Antarctica

WRONG ALLEY t. Rhododendron-the rest are elements. 2. Arctic-the rest are continents. 3. Minims—the rest are units of linear measure Planetarium - the rest are astronomical



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LIFE ON EUROPA

(Moon of Jupiter)

By HENRY GADE

Artist Frank R. Paul's imaginative conception of the form of living being that might exist on Europa is depicted on our back cover in color.

DUROPA is the smallest of Jupiter's four major satisface, before 1,68 miles in dismension of the property of t

It has a sidereal period of 3 days, 13 hours, 13 minutes, 4207 seconds. Its infination of its orbit to the planet's orbit is 3 degrees, 88 minutes, 400 seconds. Its indicated array of scasena. Its eccentricity is slight, however, being only 60003, which is the least of all the Jupiterian attellites save 10 which has rone at all.

From these meaner faquers, and with the use of

a bit of legical transpiration, we can visualize the surface of Europe.

The terrain of Europe can be deduced to be quite trengliar, and level areas would be race. Although velocinic activity would be more subdust than one in three larger setters, yet the stress of the many varied masses of the Jupiterian system deep races, in the surface and cause reviolds evin-

tions.

There would be little vegetation due to the extreme variety of temperatures and the disparity

of seasons.

A lack of moisture would indicate little in the way of weather change beyond fluctuations of temperature. Rainfail would be an externe nearly endealing the season of the s

The terrain would be mostly jugged and split rock, with occasional areas of sand. From these doductions we may picture the kind of life we would have reason to expect might

a birb meuntaln.

exist on this faraway world circling Jupiter. The Europan stands perhaps three to four feet in height, and his hody is light and filmsy in comparison to aur own.

He is constructed along the lines of an insect, with a hard, light, chitinous shell to protect home from the rapid temperature changes of the whirlwind of seasons in which he lives, both solar and planetary.

He is equiposed with feet and hands which are

admirably adapted to scrambling about the rocky terrain of his world, and he has sharp claws and laloms. His claws are powerful and dangrous. Like the inhabitants of Mars, he has an enomous lung development which makes him barrelchested. He is armored thickly to protect his

christed. He is armoored thirkly to pretect his deflicate body construction.

Earn and eyes are so constructed as to allow for covering by means of movable membranes for protection when not in use. Ears open wide to catch sound waves in the rarefiel air, the delided on over the debase drums when the European toos not desire to haze. The eyes can also be

tection against injury by rapid temperature change.

Due to light gravity, the small Europan could a erect comparatively huge develings fashioned from solid slabs of laws, butte in fantastic architectural

desgn.

His cities would be small, located near the rare sandy pockets where the only possible vegetation can exist. Europans would not be found in great numbers, but in small communities of only a few

thundred members each Life would depend on the cultivation of the vegetation, which would be a highly specialized type. Only a type almost entirely edible would be mercival to entirely.

Farms would consist of intensive concentration in sandy areas, watered from below by deep-sunk wills and underground irrigation by means of pipes or crystal tubes made from sand. Early individual plant would be covered by a

crystal protective cup, to prevent any evaporation, and to guard against temperature variation. All in all, the life form of Europa would find itself battling constantly for survival against the elements, and natural enemies might be limited to libraris that new on the Europan farm.



TRAPPED ON 10!

Little did Quirk Conovan know when he took off from Mars in his tiny space-rocket that he'd come face to face with a fantastic monster size-legged, slim-waisted, chilin-armored creature with two lobstr-like claws! But there it was . . . a living, natural fighting moschiate.

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OCTOBER ISSUE ON SALE AT ALL NEWSSTANDS AUG. 9th!

Trapped on Planetoid 31!



"Have that gun ready," Jim Harding cautioned, holding his own weapon steady. "Those thugs of Dain shoot first and talk later. Don't give them a chance!"

He turned a lever, thrust the valve open, and with Mat Pender beside him speang into the lock. The first thing Harding sew was a murderous little electromatic liveled at his beart. Then he heard Pender's grunt of surprise, and for the first time realized who his opponent was . . . a girl in a beat-suit, with the transparent hood thrown back over her shoulders.

"Put them down, boys," she snarled.
"Guns won't do you any good!" It was
the same girl Harding had seen a week
before in Fred Dain's office. Now she
stood at the airlock of their cabin brandishing an electromatic in each hand!

There was no evidence of surprise in her
coal plane. Feroming a little she said

There was no evidence of surprise in her cool glance. Frowning a little, she said, "That's it. Put 'em away and we can talk!"

Who was this pint-sized wildcat? Why did she come 180 miles in a ravaging blue-storm "to talk" with Harding and Pender? What grim fate was in store for these two medicine farmers of Planetoid 31? Was this part of Fred Dain's trickery? Read WORLD WITHOUT AIR. . a fascinating story by Henry Kuttner.

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France annahing good in hair control to be the
Max. Stanget for make Nick Hall gamble on it
—wall the drawn came.

THE PERTILITY OF GALRYMPLE TOGG.

by Helson S. Gond. Deliverels Hold was the material range whe saw Invest All Investigation for the was to thick vegetables and fruits, and they spreated from Mrs. Ball. THE STRANGE VOYAGE OF MECTOR COLUMNS.

SQUINGH—by David Wright O'Srien, Terror to the state of meet little Hector Squinch as he resilies the interfella truth. He was frequent in a space ship beared from-where?

WAR OF HUNAN CATS—by Festes Pregnall
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boroble as this incredible war where real heroday
terms?

August Issue



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Name.

LIFE ON EUROPA

This member of the solar system is only slightly smaller than Earth's moon. Science knows little about it, and thus, Jacking conclusive observation, our artist pictures its life in imaginative style. (See page 144 for details.)

